Network Video Surveillance System

User's Manual

CONTENTS

1. Preface 4
1.1. To Readers 4
1.2. About the manual 4
1.2.1 Stereotype of the typeseting 4
1.2.2. Explanation of some technical terms 4
1.2.3. The Three Software 5
1.2.4. Host Computer Configure 5
2. The instructions of multiplayer System 6
2.1. Installation of system software 6
2.2. System Login 7
2.3. Introduction of MultiPlayer 8
2.4. Cameras Searching 9
2.5. Configuration of the Camera Parameters 11
2.5.1. Basic Parameter 12
2.5.2. Image Data 13
2.5.3. User Management 13
2.5.4. I/O Warning 14
2.5.5. Pan-tilt Setting 15
2.5.6. Motion Detection 16
2.5.7. DDNS 17
2.5.8. Wireless 21
2.5.9. SMTP 22
2.6. Group Management 22
2.7. To Open the Video(s) 24
2.8. Video Turn-setting 25
2.9. Control of Camera on Clouds Terrace 26
2.10. Presets and Patrolling 27
2.11. Video Control 27
2.12. Video Browsing on MultiPlayer 28
2.13. Menu 30
2.14. Configuration and Playback of Local Video 30
2.14.1. Configuration of Save Disk 30
2.14.2. To Start Record 32
2.14.3. Local Record Play 33
3. Record Server Software 35
4. Record Server Management System 37
4.1. To Login the System 37
4.2. Instructions of the System Interface 38
4.3. To search for cameras and video server 39
4.4. The Allocation of Cameras 40
4.5. Basic 40
4.6. Setting 42

4.7. Users 45
4.8. Log 46
4.9. Play 46
5. Addenda 50
5.1.Mini High Speed Dome (10X Zoom Lens) Control Directory 50
5.2. Mini High Speed Dome (10X Zoom Lens) Error Code 52
5.3. IP Camera Video Board Interface Signal Definition 52
5.4. Host Computer Configure 55
5.5. Solution of problems 55
5.6. How to use the multiplayer System view camera video 58
Step 1: Installation the multiplayer system 58
Step 2: Login multiplayer system 59
Step 3: Searching the cameras 60
Step 4: To Open the Video(s) 61
5.7. How to use local record 63
Step1: Configuration of Save Disk 63
Step2: To Start Record 64
Step3:Local Record Play 65
5.8. How to use server record 67
Step1:Open Record Server Software 67
Step2:Login Record Server Management System 69
Step3:Search the record server and cameras 70
Step4: The Allocation of Cameras 71
Step5: Basic setting of record server 71
Step6: Setting camera record 73
Step7: Play the record 76
5.9. How to setting the router Port Mapping 79

1. Preface

1.1. To Readers

The manual presents detailed instructions and guidance for the installation and configuration of all our network products (IP camera, network video server, network high speed dome, network constant speed dome).

The operation mentioned in this manual usually fits for all our series of network surveillance products except for in special cases we highlight.

If this is the first time for you to use our network cameras, please read this manual before using the product. We suppose that you should have been familiar with the knowledge listed below before reading:

■Installation and operation of the electronic appliances

■Operation of personal computer

■Series of operation system developed by Microsoft(except for the version of windows server)

■The basic concepts and practice of the LAN and IP data communication

1.2. About the manual

Some points about the manual

1.2.1 Stereotype of the typeseting

The words quoted between double quotation marks on this manual are the content you would see in the process of use. It would be an operating step you should finish, or the hint on the screen, or the words you need to type in.

1.2.2. Explanation of some technical terms

- Interface:

Except for special cases we highlight, Interface refers to the `Control command received`

port，the facilities which have a TCP interface to connect with internet and accept TCP data packet, such as IP camera and video server, accept command through TCP connection. The http default port number of all our network products is 80, while the Control Command port Number is 9000.

■ User and password

In the whole surveillance system, every camera has its own authentication system, in other words, cameras in the system have different user's name and the correspondent password. The super user's name "admin" can not be deleted or modified, but the password of "admin" can be replaced. Before packing a camera, the password of the user "admin" was not configured in order to let you settle the password conveniently. In the real practice, when you login the camera software and camera multiplayer software, your user's name and password might not pass the authentication of all the cameras, at that time, the system would give a hint to let you type in the correct user's name and password.

1.2.3. The Three Software

■ The multiplayer surveillance system: be able to monitor the videos of many cameras on the same screen, to configure all the parameter of all cameras in the same surveillance, and to record and playback the local video.

■ Video server management system: to configure, manage and playback the videos of the Server-side.

■ Record Server Software: Running the software can realize the functions of configuring, managing and playback of the videos Server-side.

Attention: If you are going to record less than 16 cameras, you can choose the function of local video recording in multiplayer surveillance system. If you like to record more than 16 cameras, please choose the video server to realize the function.

1.2.4. Host Computer Configure

Multiplayer system host computer consult configure：

CPU：Dual Core Inter Celeron E1500

Mainboard：GIGABYTE P31

Memory：Kingston 2G

Display Card：NVIDIA Geforce 9500GT

Hard Disk：Seagate 1000G. The buffer access of the hard disk at lease 32 MB and the virtual memory should set at least 2G， You had better use professional monitor hard disk.

Notice: Please do not use standby state and screen saver.

2. The instructions of multiplayer System

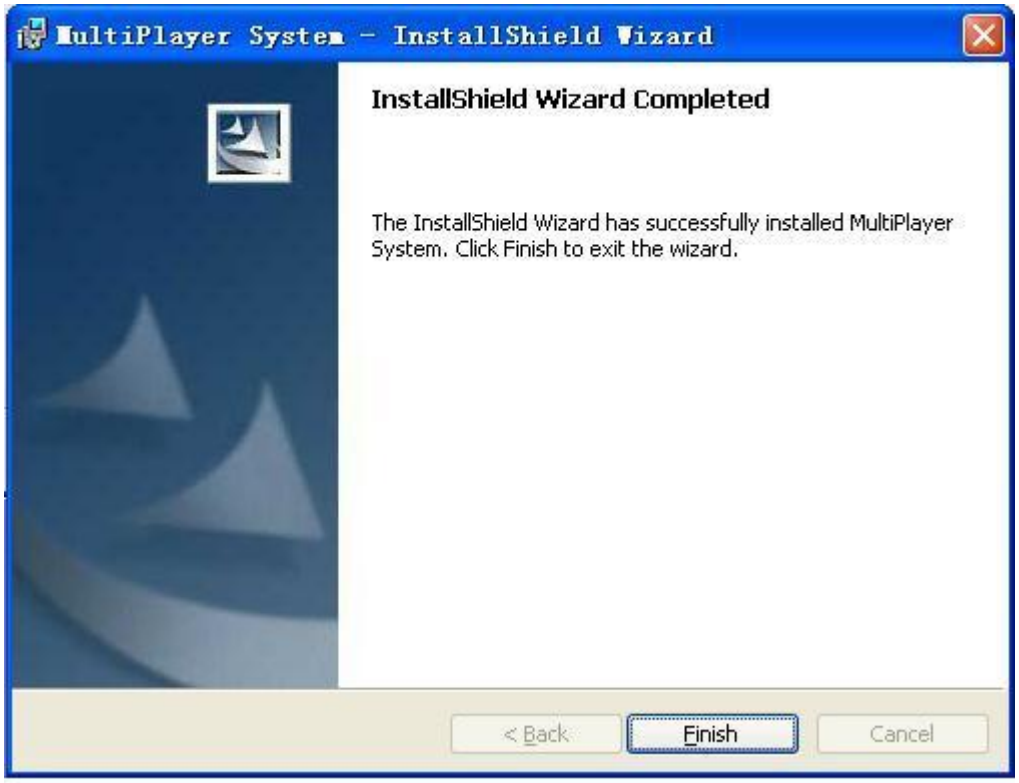
2.1. Installation of system software

Run “MultiPlayer_System.exe”, operate the program according to hints, then the dialog box below appears:

MultiPlayer System - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install MultiPlayer System to:
C:\Program Files\Network Video Monitor System\MultiPlayer System\
Change...
InstallShield
< Back
Next >
Cancel

If you choose “complete”, the software is installed on the default trace of the Microsoft system (C: Program Files\Network Surveillance System\Multiplayer surveillance system); If you choose “Change”, the trace of installation can be changed. Then press “next” to continue the installation. The installation program will automatically copy the necessary documents to the designated position and register

necessary components, the picture below will appear after the finishing of installation.


MultiPlayer System - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed MultiPlayer System. Click Finish to exit the wizard.
< Back
Finish
Cancel

The whole installation is finished when you press “finish”. The icon of “Multiplayer” will appear on the table. It looks like the following picture shows:

2.2. System Login

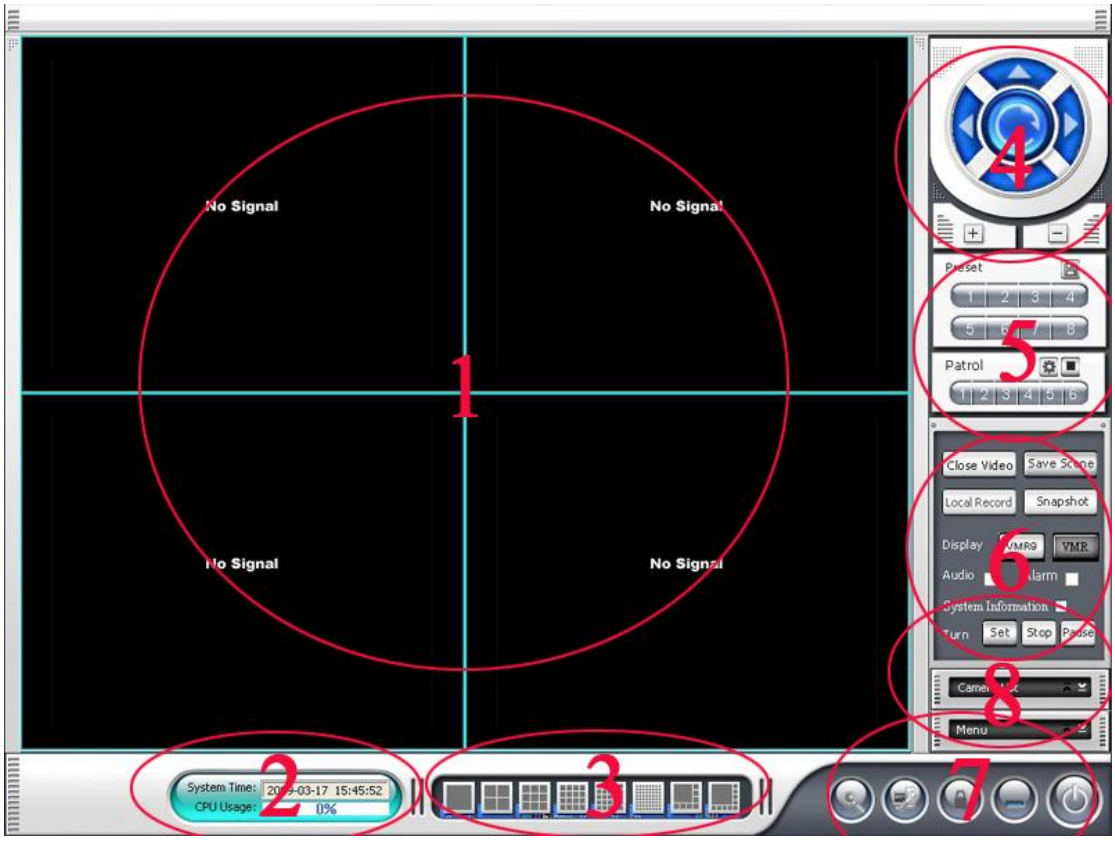
Double Click the icon of MultiPlayer, there is a system login interface present as following :

The default user's name which is unchangeable: admin. The password which can be changed as you like is not set up. After you type in the correct user's name and password, press "OK" , the picture appears

you can modify the password

2.3. Introduction of MultiPlayer

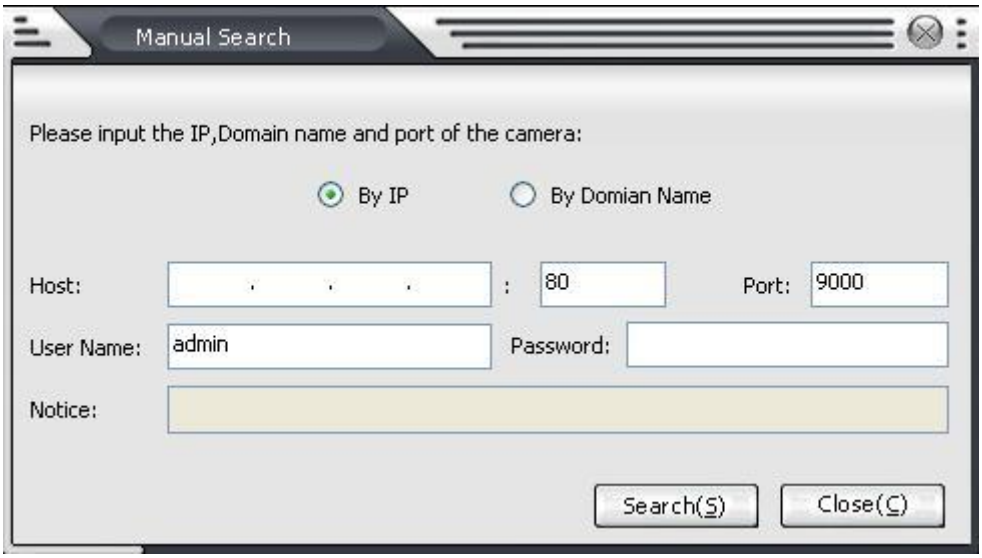
After passing the identification validation and password validation, you will enter into MultiPlayer, the software shows as following picture:



Zone 1: It is used for display the video.
Zone 2: It is used for display the system time and CPU state.
Zone 3: It is used for change watching mode as you like, 1 picture, 4 pictures, 9 pictures, 16 pictures, 25 pictures, 64 pictures, 7+1 pictures, 9+1 pictures.
Zone 4: It is used for control the camera to turn.
Zone 5: It is used for control preset and patrol, how to set preset and patrol
Zone 6: It is used for video control like snapshot, local record.
Zone 7: The buttons in the zone from left to right is searching for cameras, local video management, software locking, minimizing, maximizing.
Zone 8: Click the camera list or menu can pop up the menu.

2.4. Cameras Searching

Move the mouse on the "camera searching" button, then there are two options "auto search" and "manual search". If the camera just works within the LAN, "auto search" would be chosen, while the camera is in the control system of long-range, the" manual search" would be chosen, the manual search dialogue appears:
Note: If you have change the camera http port(the default setting is 80), you must use manual search to open the camera, or else it can not open the video.



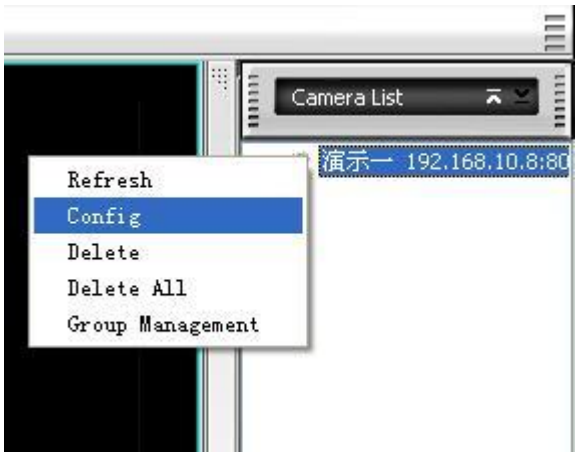
Type in the IP address and the port number.

The above operation is under the condition of searching camera by IP. If you search the camera through the domain name, please choose the way of “by domain name”.

When the camera has been found, the name of the camera will be on the list on the right side of the MultiPlayer. The picture below is the interface you will see:

2.5. Configuration of the Camera Parameters

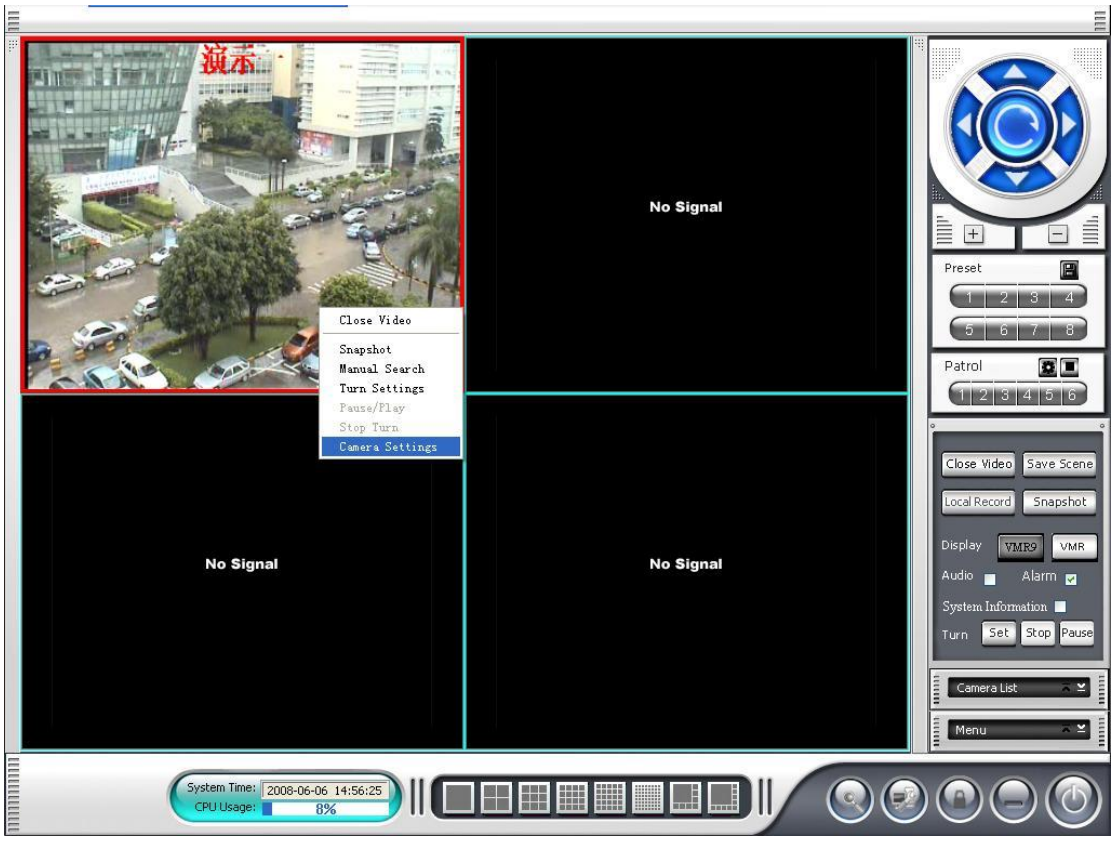
Enter into the list of cameras, click the left-hand button of the mouse to select the camera you want and click the right-hand button of the mouse, the picture below will be present:



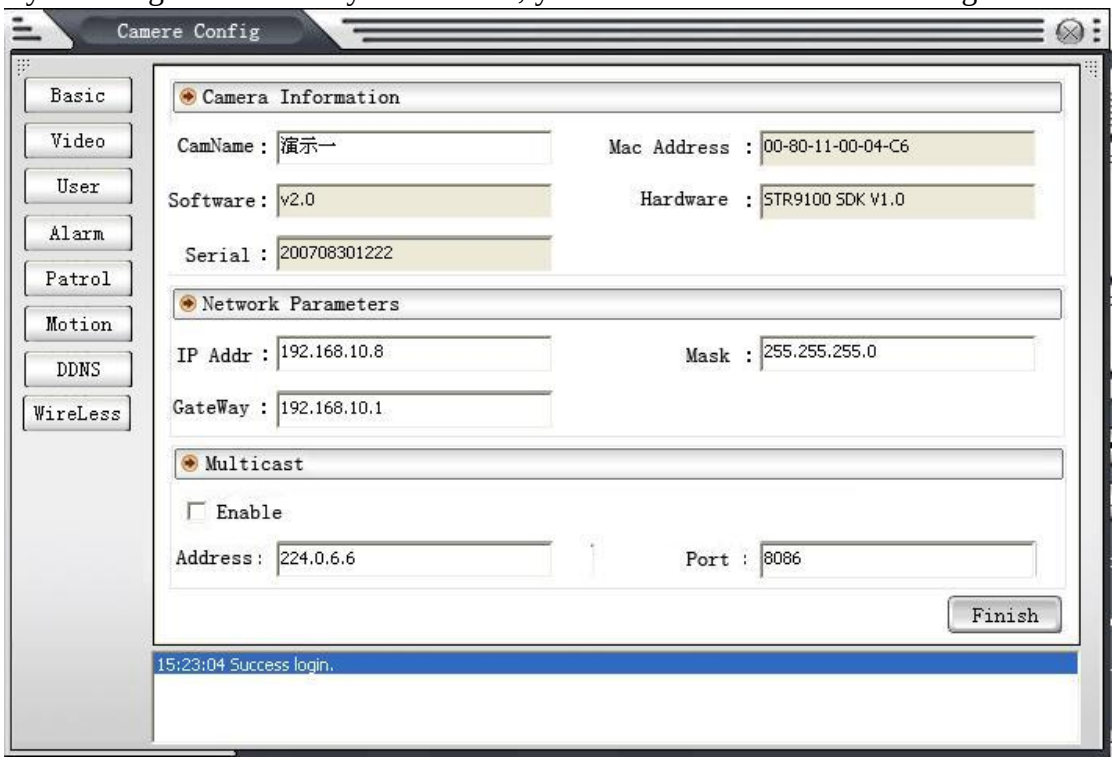
Select the “Config”, the user login dialog box will be showed on the screen:

Because the default user’s name is “admin”, the password is not set up, you can enter into the camera configuration by typing in the “admin” as the user’s name.

Or you right click the mouse on the video browsing window of muti-picture play as the following picture :



By choosing one of the ways cite before, you enter into the "Camera Config"



2.5.1. Basic Parameter

As the above picture shows, in the "basic" sub-menu the user of camera has the right to modify the name of the camera, IP address, subnet mask, gateway, to choose the

function of replay the videos when necessary. When the data of the camera has been settled, press “Finish” to quit from the interface.

2.5.2. Image Data

As the following picture shows, enter into the “Video” sub-menu where you could modify the audio data of the camera, the video format，compression，frame rate and GRB. It had better set up the contrast，saturation，brightness，hue as the default data shows

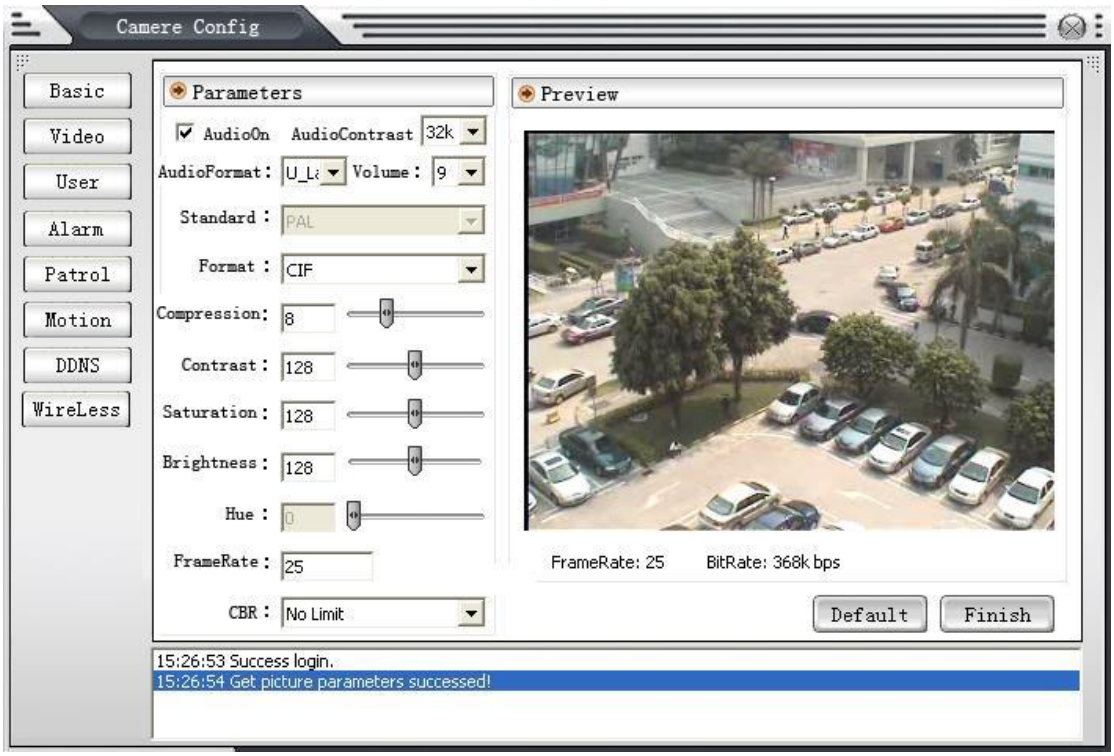
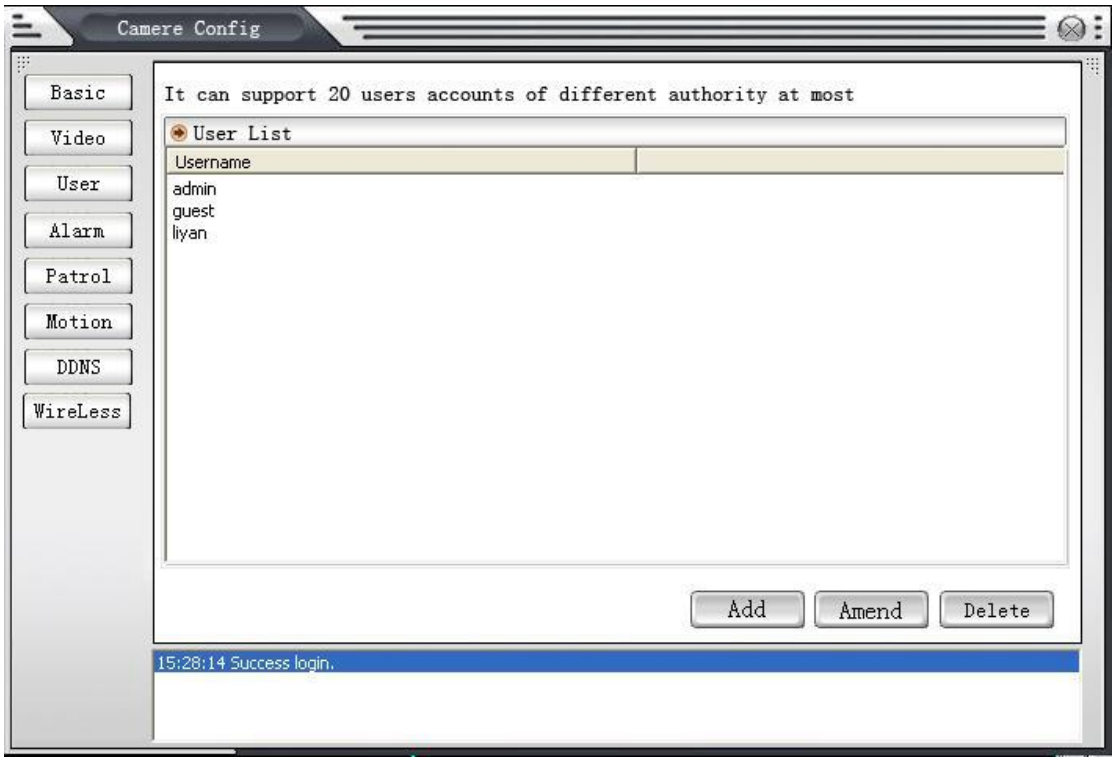


Image Format: D1(720*576), FIELD(720*288) CIF(352*288), QCIF(176*144);
Compression: the more higher the compression number is, the more effective the compression is, the less space the video takes, the vaguer the picture is.
CRB: the bandwidth of the internet the camera takes is restricted by GRB
Return to default: the default: Image Format: CIF; Compression: 8; Frame Rate: 25; Contrast: 128; Saturation:128;Brightness: 128; Hue: unchangeable.

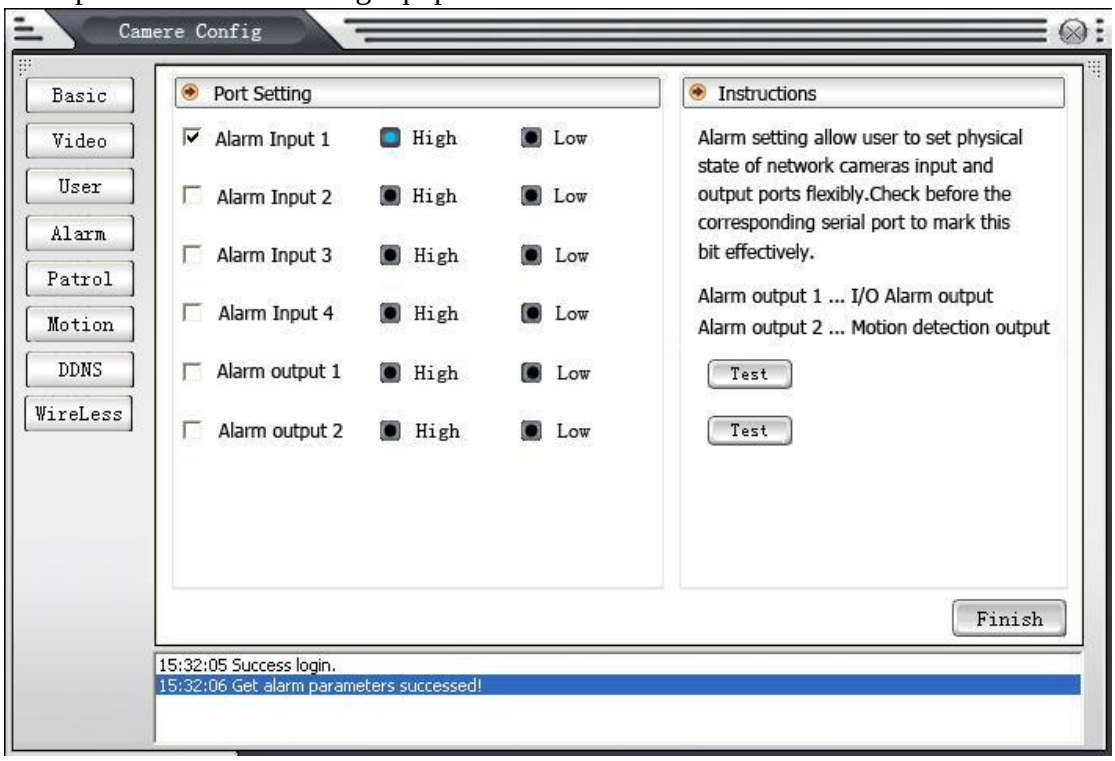
2.5.3. User Management

The user management refers to the configuration of `Management authority`. It is possible to establish one-one correspondence between a camera and a user. If user needs to put all cameras under control, the user should establish connection between the same user’s name and password and cameras.
Enter into the “User” configuration as the following picture, the user can configure the user’s name, password. The user not only can add the new user’s name, but also modify and delete the existing user’s name and password.



2.5.4. I/O Warning

I/O Warning is the connector through which the warning signal is input to camera and is output to external warning equipment.



"High Level Voltage" means that the warning equipment is open, "Low Level Voltage" means that the warning equipment is closed. The default data is "High".

If the warning signal is found, a red warning light would appear on the left corner of the video browsing window of the correspondent camera. The red light disappears ten seconds later than the stop of the warning.
There is the measure to connect the external warning equipment is on the appendix.

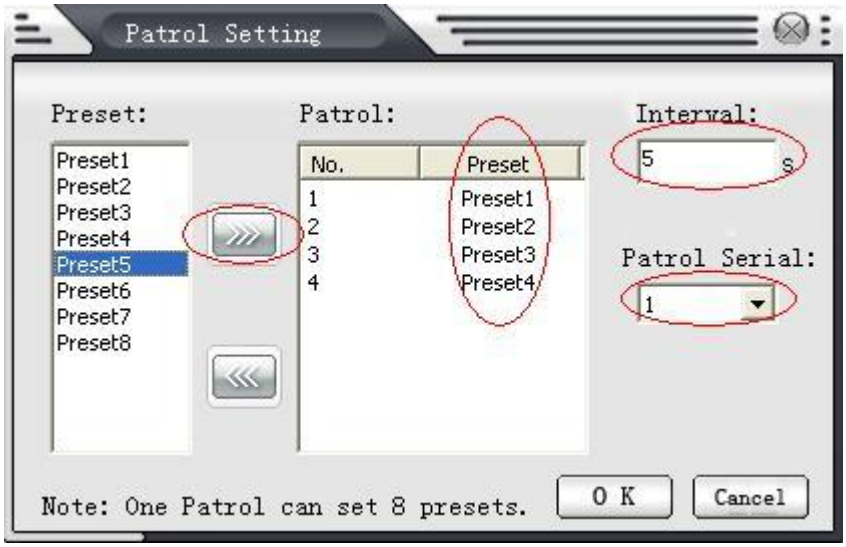
2.5.5. Pan-tilt Setting

This function is mainly for configuring the clouds terrace of network high speed dome, network slow speed dome, mini network high speed dome, network constant speed dome. This function is also suitable to the configuration of external clouds terrace. In addiction, the patrolling can also be configured on the dome and clouds terrace which support the presets , except this, it can set area scan.

Pan-tilt protocol: B01，PELCO-D，PELCO-P，PELCO-D1，PELCO-D-2，KING，KING-2 optional;
Baud rate:2400, 4800,9600;
Rate range of pan-tilt: 1-63;
Preset: is the designated positions on which the dome surveillance several designated zones with the same zoom.
The reversal, Lens , OSD, Iris, Sys OSD is just used for particular camera.
Patrolling: in the time interval the dome patrols according to the order of the presets.
The schedule of patrolling setting is showed :
1. Save the Presets.
Turn the dome to the designated zone with the zoom settled, the save the preset as the pictures show:

2. Enter into the patrolling setting and add the presets to the order of the patrolling,

then set up the interval as the following picture shows:



The configuration of several patrolling trace is available. Different patrolling trace is given different number, then press "OK".

3. Area Scan Set

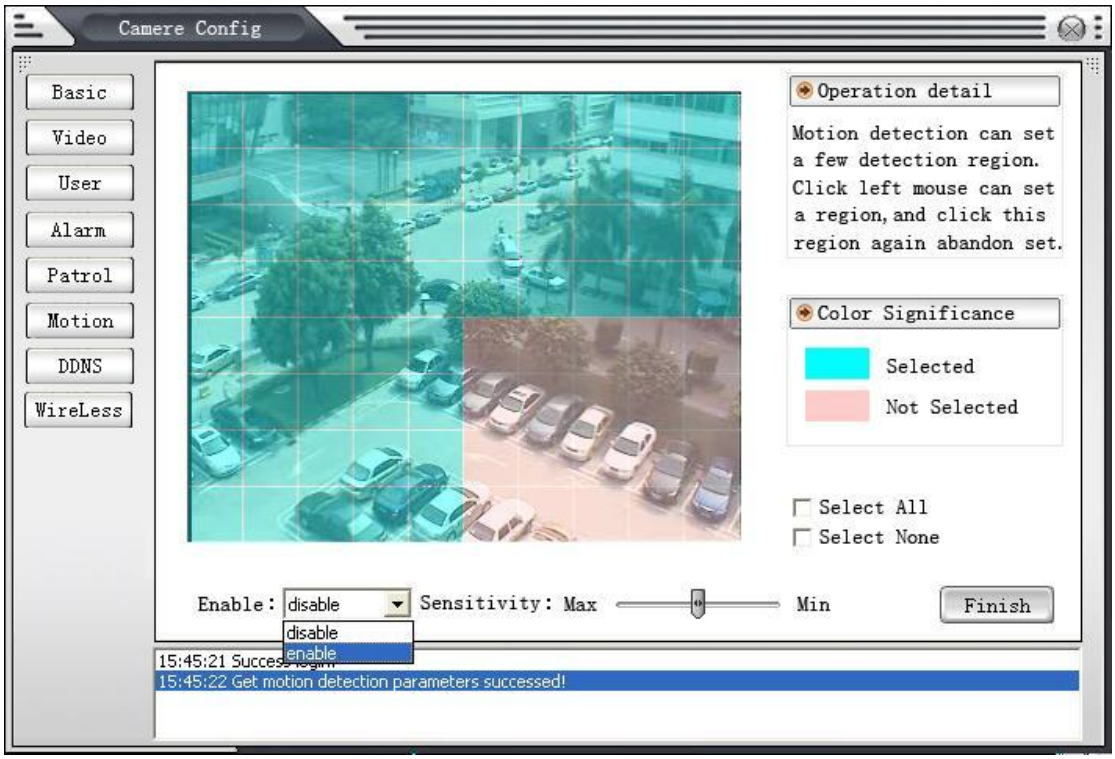
Area scan is used to scan the area between two side by the setting speed.

Press button to save the two side of the area. Press button to start area scan.

2.5.6. Motion Detection

Motion detection refers to the detection which detects the movement of the objects in a designated zone and records their movement. When the function of motion detection is open, once object or human moves, there appears a warning signal which causes the

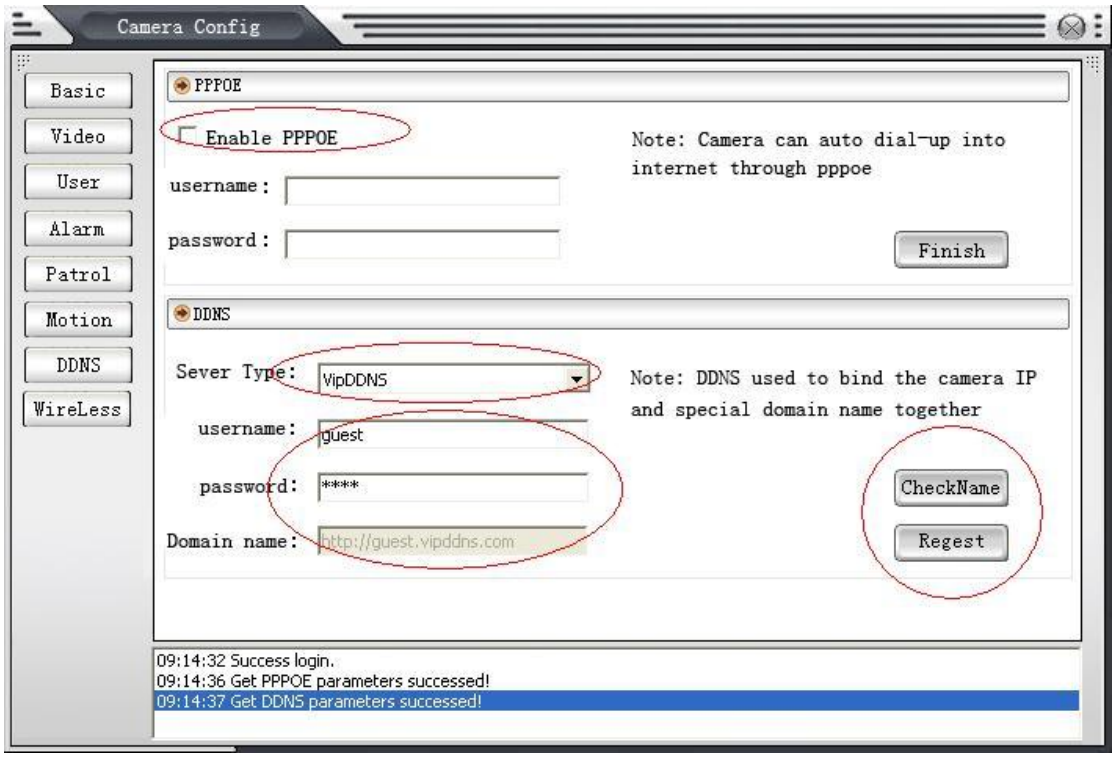
opening and video recording of the Linkage of the alarm-equipment.



The detection zone which is limited to part of the picture, is optional.

2.5.7. DDNS

DDNS is used for domain IP address.



PPPOE: the way in which camera is directly connected to Dial-up MODEM of

ADSL，only for one camera.
DDNS: the way in which camera is directly connected to Router，for more than one camera.
All our series of surveillance products support PPPOE and DDNS.

By PPPOE:

Enable PPPOE, The Username and Password is ADSL Accounts and Password.

Use DDNS and the server type is VIPDDNS, fill in the Username and Password, Check Username and Click register, the Username is the Domain name, if the Username is guest, and the Domain name is http://guest.vipddns.com. It will finish register when you fill in all message.

User can long-distance connect camera by IE, Input http://guest.vipddns.com on IE can view camera video, or you can view camera video use our software to manual search camera.

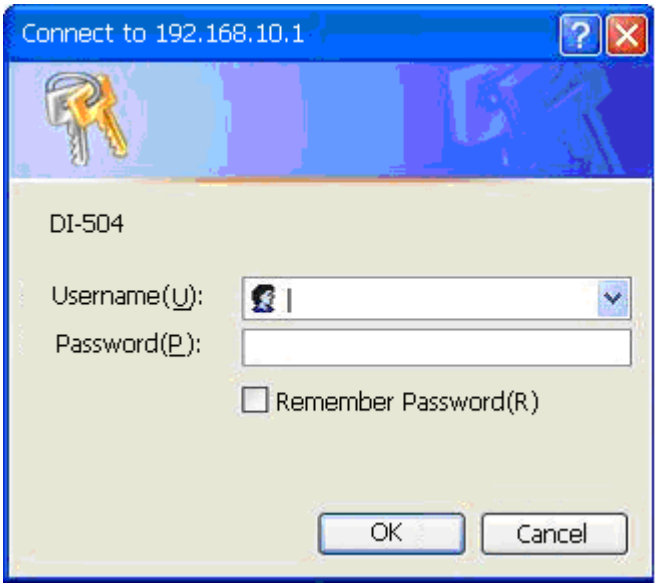
If you want modify hostname, you just need select DDNS and modify the Username.

By DDNS:

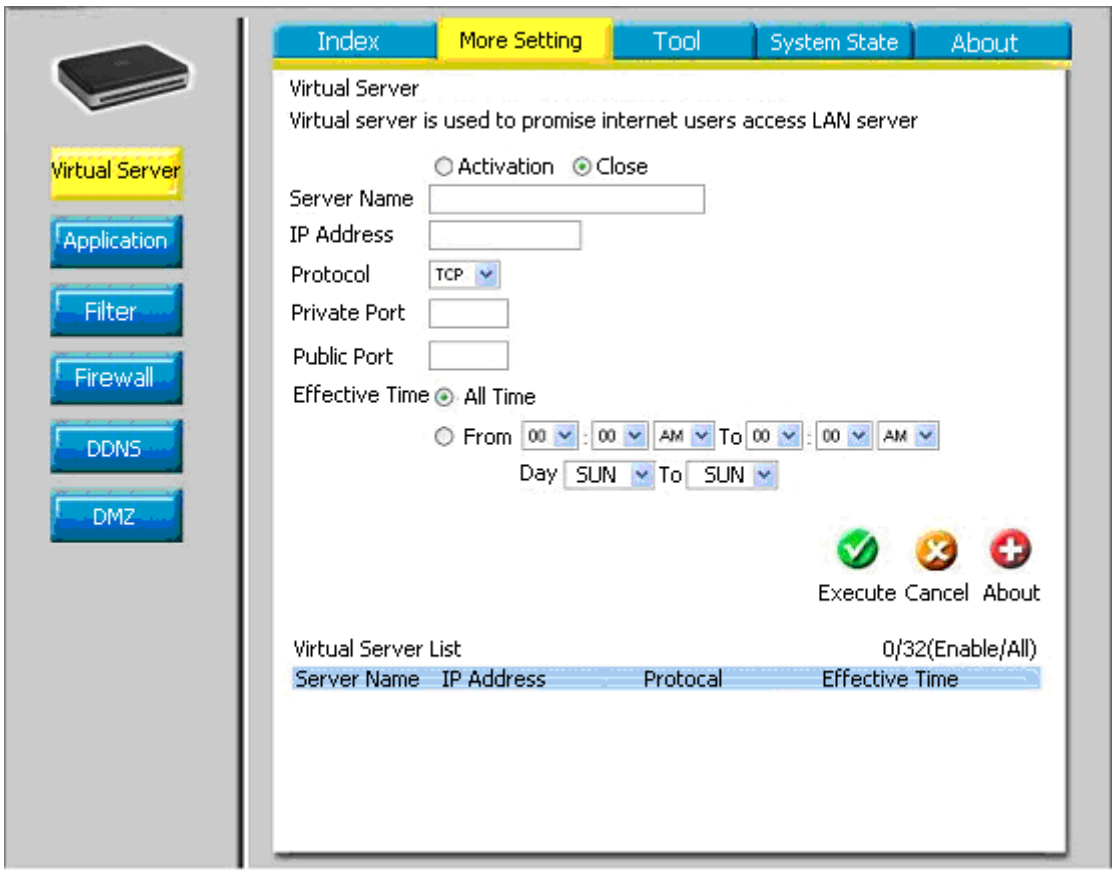
When the IP Camera connect to Router, You need to mapped the router port.

Router Port Mapping ：

At first we login the router



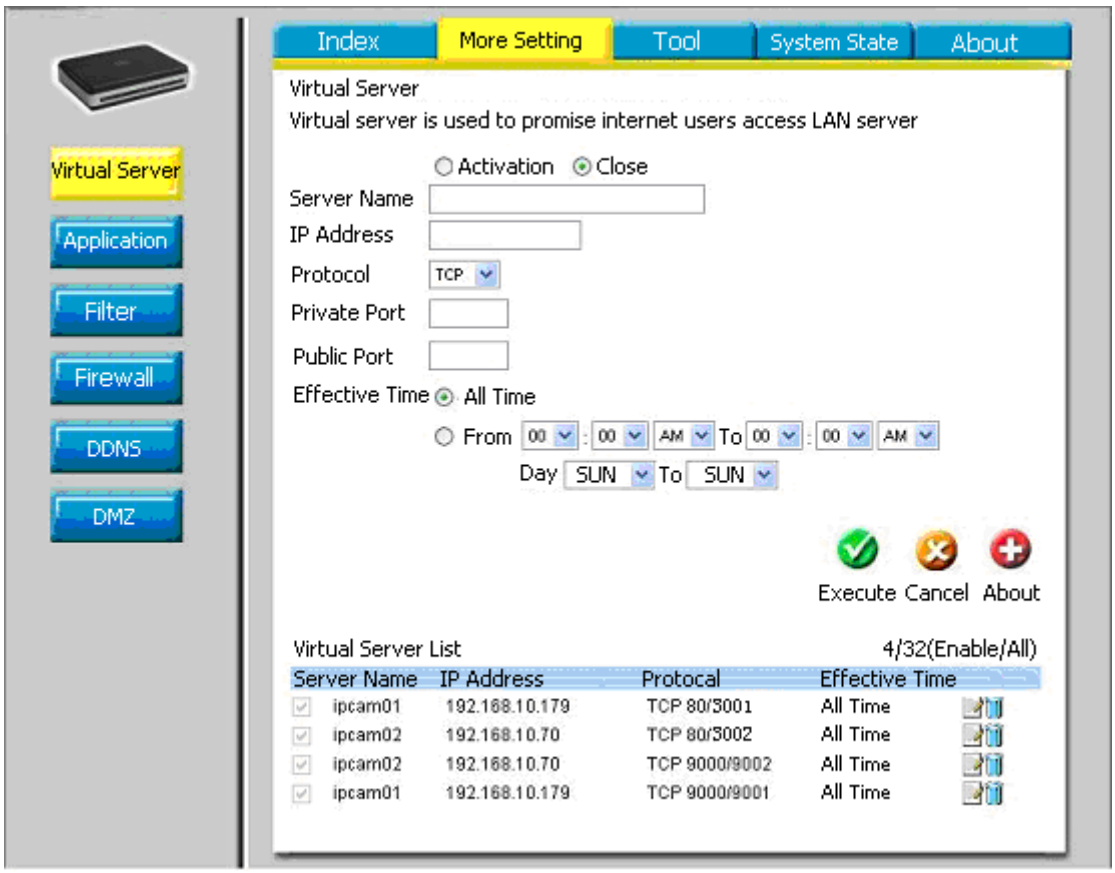
Input your Username and Password to access the router management page. Then click the virtual server page.



Private server port is local network port, Public server port is internet network port.

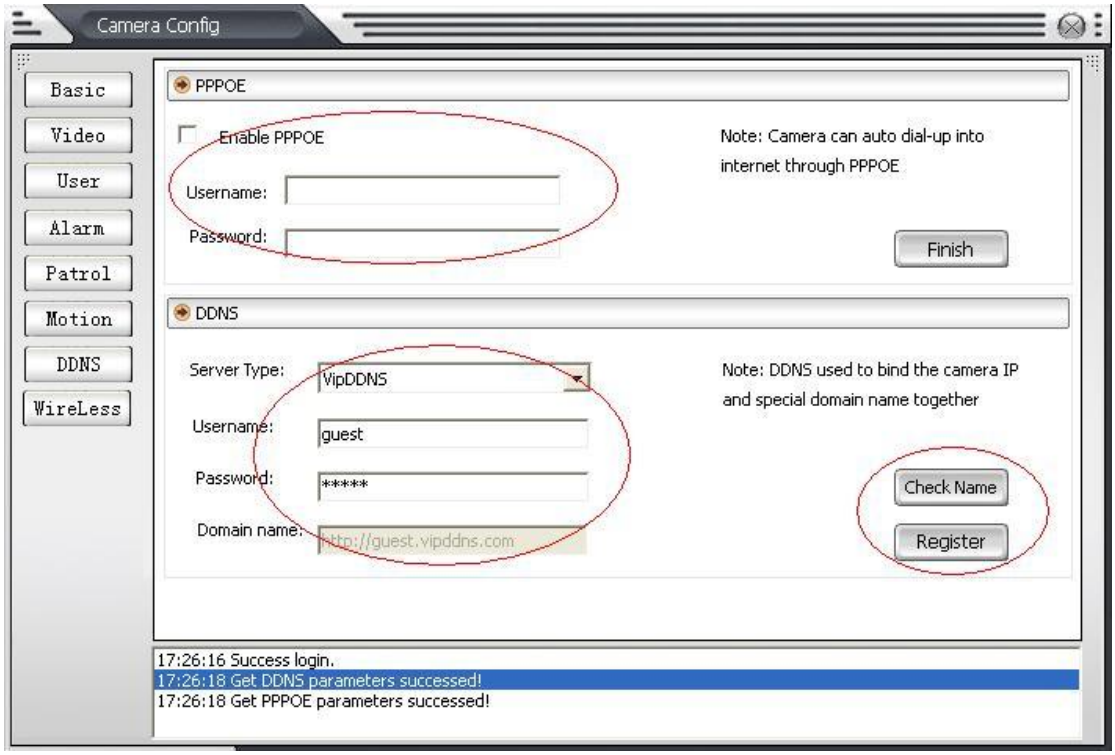
If you want to long-distance view camera video by IE, you just need to mapped the 80 port of the IP camera. If you want to long-distance view camera video by our software, you need to mapped the 80 port and the 9000 port of the IP camera.

If you want to configure two or more IP camera, Please consult the picture below to mapping the port.



The action in the picture on top will mapped 80 and 9000 port of the two IP camera to 3001, 3002 and 9001, 9002, Click execute to finish.

Notice：If you use VIPDDNS，The router mapping server must define by rule，The 80 port of the IP camera corresponding internet port range is from 3000 to 3022，9000 port corresponding internet port range is not limited.



Look the picture on top, Choose the DDNS server type. If you want use our DDNS, the server type is VIPDDNS, fill in the Username and Password, Check Username and Click register, the Username is the Domain name, if the Username is guest, and the Domain name is http://guest.vipddns.com. It will finish register when you fill in all message.

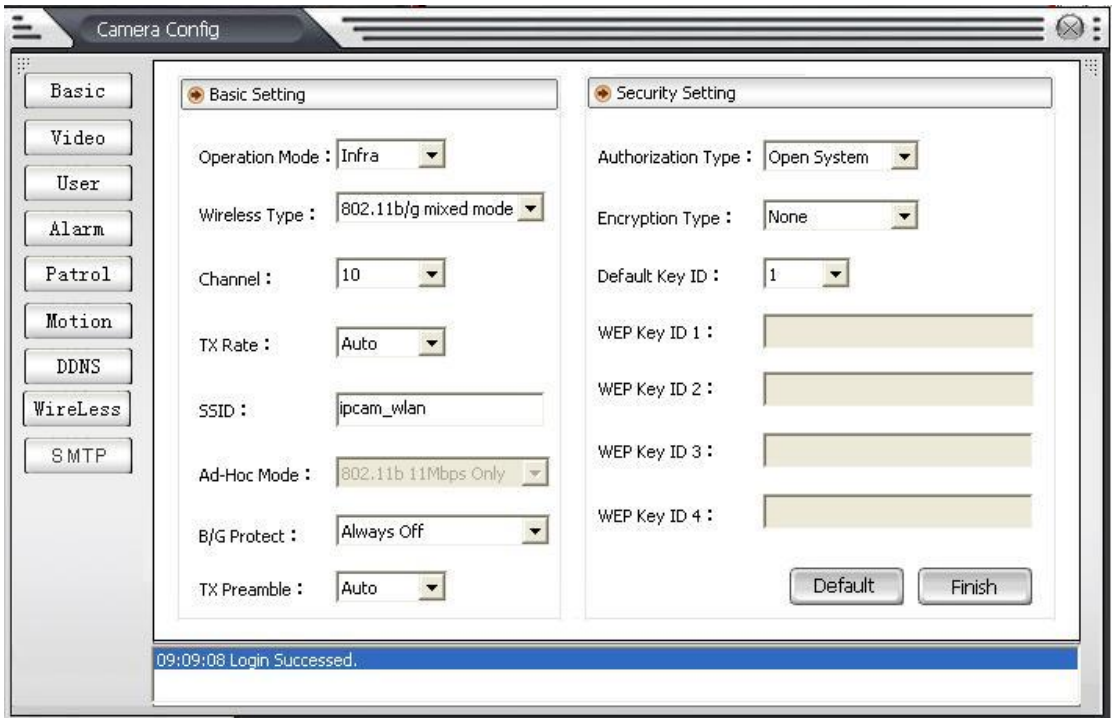
User can long-distance connect camera by IE, Input http://guest.vipddns.com on IE can view camera video, or you can view camera video use our software to manual search camera.

If you want modify hostname, you just need select DDNS and modify the Username.

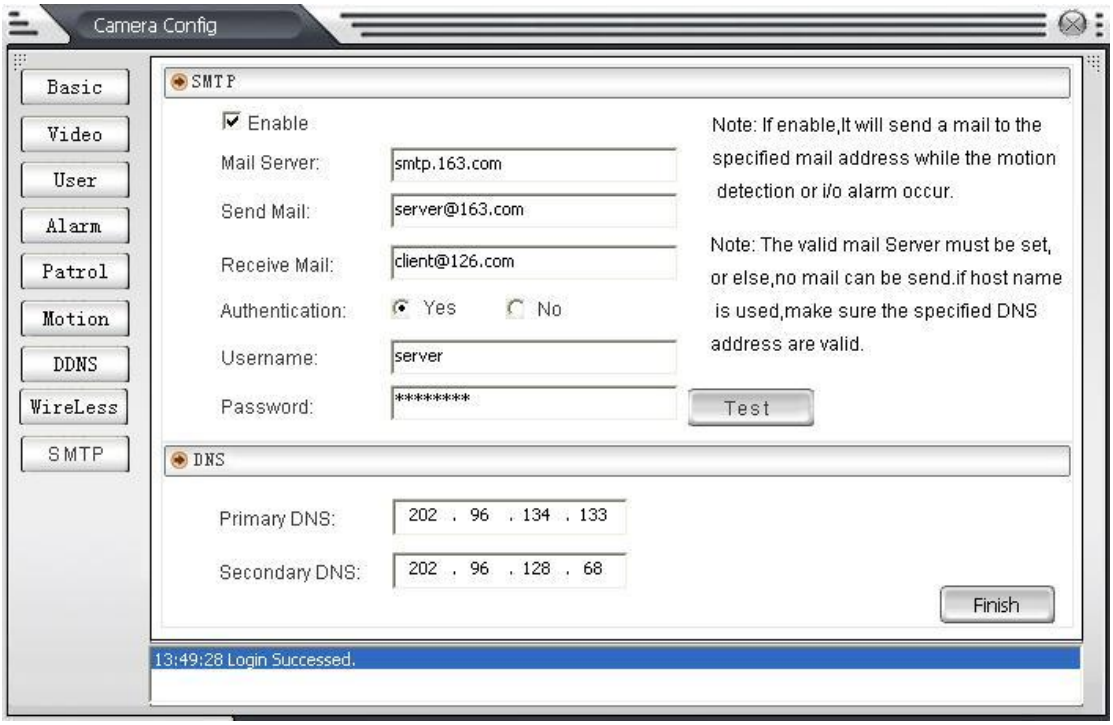
Notice：By DDNS no need to enable PPPOE。

2.5.8. Wireless

You just need to setting the channel and SSID the same as wireless router。



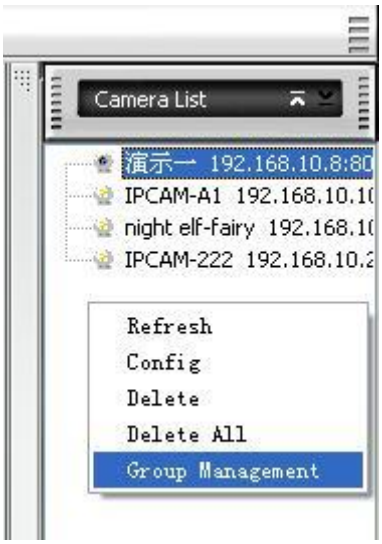
2.5.9. SMTP



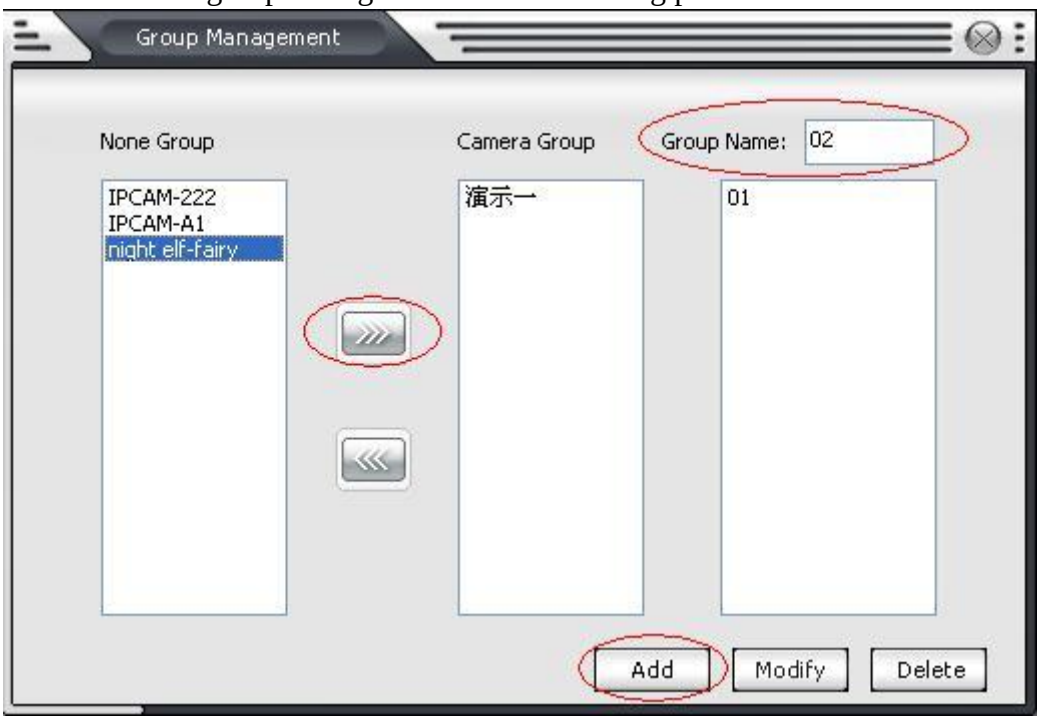
Mail Server: It use for the SMTP server of the send mail
Send Mail: It use for the email address of the send mail
Receive Mail: It use for the email address of the receive mail
Username and Password: It use for login the send mail
Primary DNS: It is the SMTP server address of the camera

2.6. Group Management

Right click the right-hand mouse,



then enter into the group management as the following picture shows:



Click “Add” to add the new group into the list of “ Group Name”. The cameras which not belong to any group can be added to the designated group by click the right-directed arrow.

The groups which will never be used can be deleted.

The division of groups also can be operated in the list of cameras, as following picture:

Use the mouse to drag the camera's name to the group.

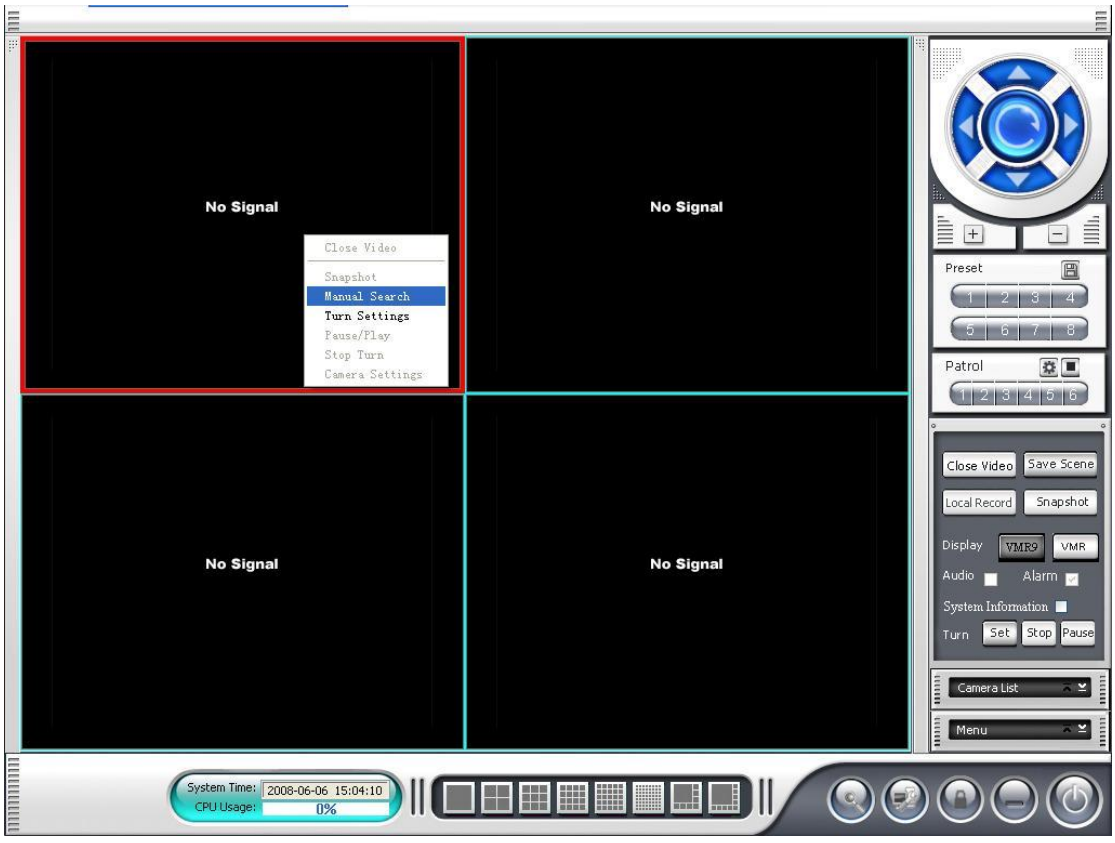
2.7. To Open the Video(s)

a. open the video(s) from the list

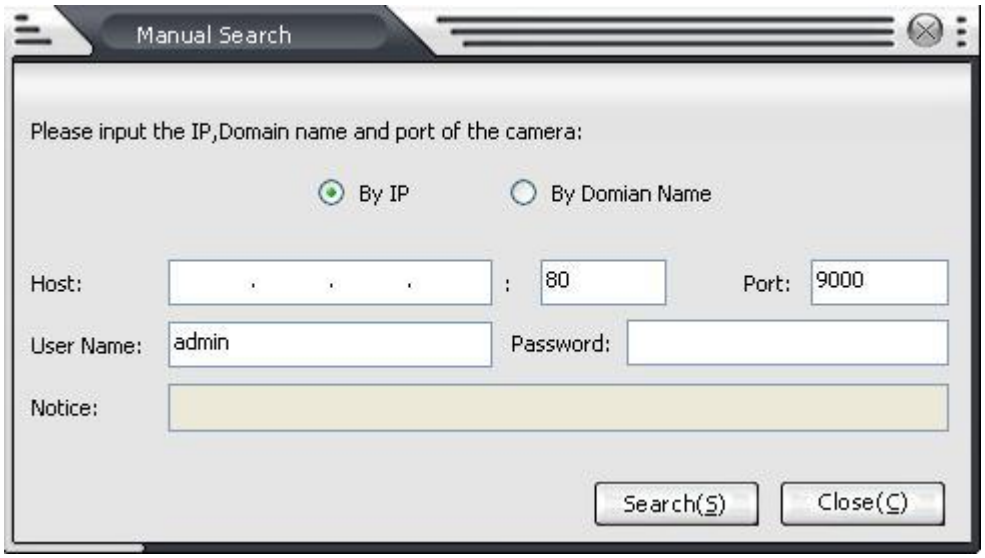
select the camera from the list of cameras, drag the camera's name directly to the video watching zone, type in the correct user's name and password, then you can surveillance the video(s).

b. open the video(s) from the window

Right click a window on the video watching zone, then the dialog box appears, select "Manual Search"



Then the picture transforms into "Manual Search".

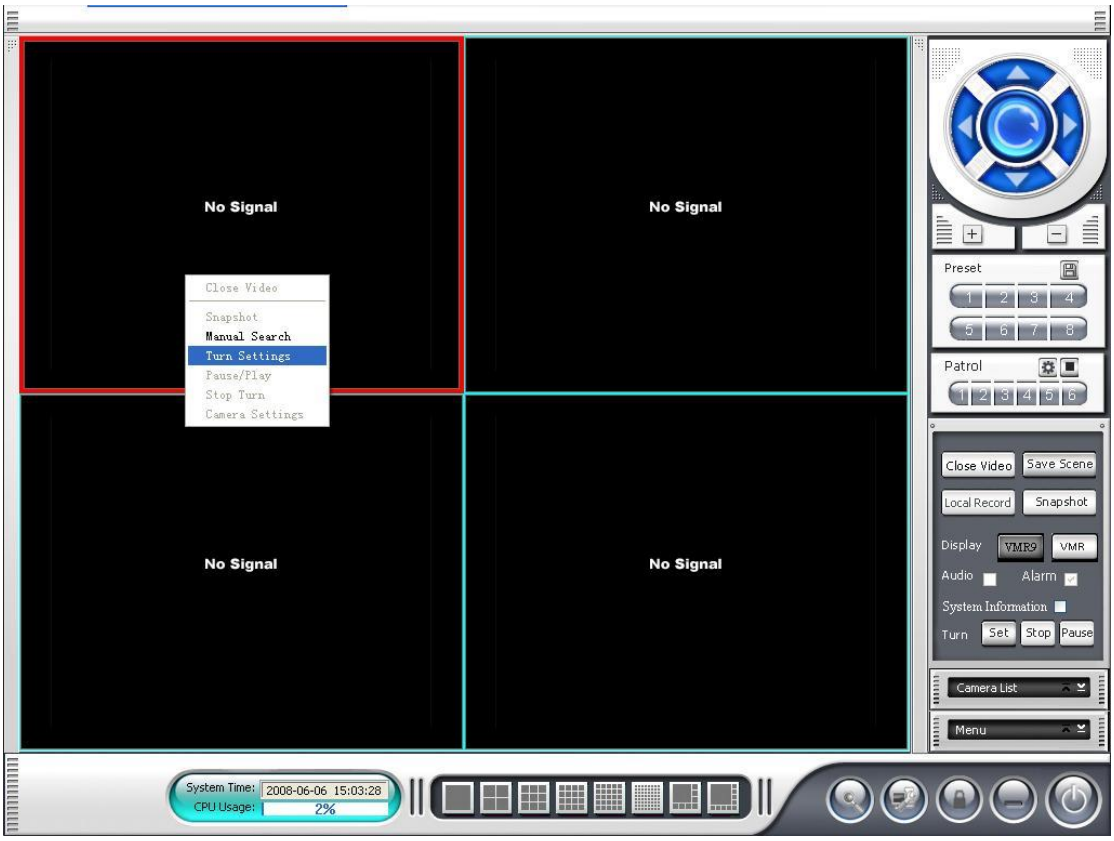


Type in the IP address or domain name of the IP camera you are going to open, the user's name and password, click "Search" then the video of the designated camera opens.

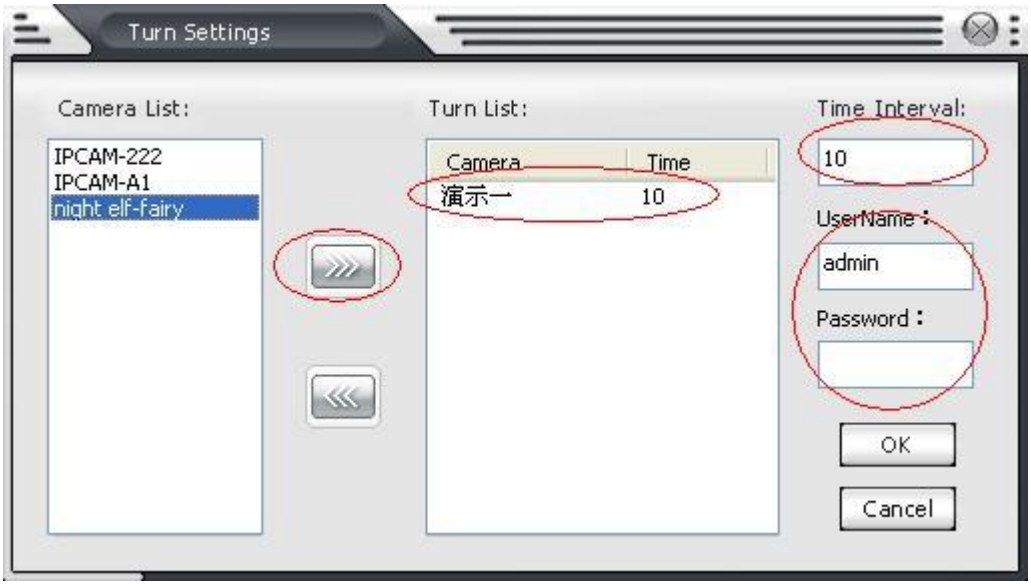
2.8. Video Turn-setting

Video Turn-setting is the function that the video watching window shows the video from more than two cameras in turns at the fixed time interval. The function is used when the number of cameras is more than the number of video pictures, or when the configuration of the computer is limited to some extent.

As the following picture show, right click the window of video-watching zone, then a dialog box appears, choose "turn-settings".



Enter in to the window of turn settings.



Select the camera you want, type in the user's name and password, set up the time interval of the turn-settings, then press the right direction arrow on the central of the interface to add the camera's name to the turn list. The function is available under the condition of involving two of more than two cameras. Then press "OK" to finish the configuration.

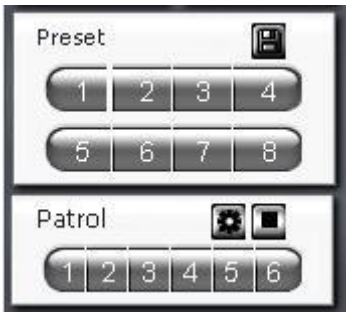
2.9. Control of Camera on Clouds Terrace

The function fits for the camera with zoom or able to rotate up, down, left, right.

The blue part of the above picture is the control part of the Clouds Terrace whose buttons are the up button, down button, left button, right button, and the auto rotating button on the central.

The two white buttons controls the zooming of the lenses. “+” button makes the Lens closer, the focal length zoom in, "-" for the retractable lens, the focal length of narrow button。

2.10. Presets and Patrolling



The control of presets and patrolling is set up for the camera with the function of presets. There are the detailed configuration methods on 2.5.5 Pan-tilt Settings.

2.11. Video Control

Close Video: able to close the video picture selected.
Save Scene: user could put the relevant pictures (such as one floor of a building, one of several factories) on the same interface, and treated them as a scene, then save the scene. From then on, you select the scene after the opening of the MultiPlayer, the MultiPlayer will automatically connect and play the pictures of the cameras in designated order at a time.
Local Video
Snapshot: snapshot photos of the video saved as JPEG of the picture format on the trace of the software /Picture file.
VMR9/VMR: the display cards of different surveillance terminals differs from each other. The difference among display cards causes the variety of the versions of VMR. If the MultiPlayer detects that the VMR of the terminal is VMR9, the user can choose VMR to solve the problem.
Audio: the sound from the picture can be heard when the "Audio" is selected. The realization of this function requires the camera with microphone.
Alarm Warning: When the camera in the display zone is configured the motion detection or connected with external warning equipment, once the motion is detected, there are a frame in yellow blinking and the alarm warning. The user can also choose the alarm linkage without the functions of yellow frame and Voice prompts.
Alarm： When the cameras that in the display area have choose motion detection，or connect to I/O Warning equipment, When give an alarm, the display area will ray yellow frame and voice hint. If you need alarm linkage, but not need yellow frame and voice hint, you can cancel choose the alarm hint.
System Information： If you select system information, The information column will display in the left-down area of the interface.
Turn Settings: the configuration of turn settings is in 2.8. Video Turn-setting.

2.12. Video Browsing on MultiPlayer

There are the option of 1 picture, 4 pictures, 9 pictures, 4 pictures, 16 pictures, 25 pictures, 64 pictures, 7+1 pictures, 9+1 pictures to show the videos, as the picture shows:

User can choose the type he/she needs. To click the mouse directly to select the mode. For example: choose the 16 pictures mode which is like the picture below:

No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
No Signal
Preset
1 2 3 4
5 6 7 8
Patrol
1 2 3 4 5 6
Close Video
Save Scene
Local Record
Snapshot
Display
VMR9
VMR
Audio
Alarm
System Information
Turn
Set
Stop
Pause
Camera List
Menu
System Time:
2008-06-06 15:01:36
CPU Usage:
14%

2.13. Menu

Function menu contain Monitor Screen, Scene, System Information and User Interface Refresh.

Monitor Screen： Display different screen amount.

Scene： The scene that you have saved will display behind the default scene, you can click it to open the scene.

System Information： Click it can display system information.

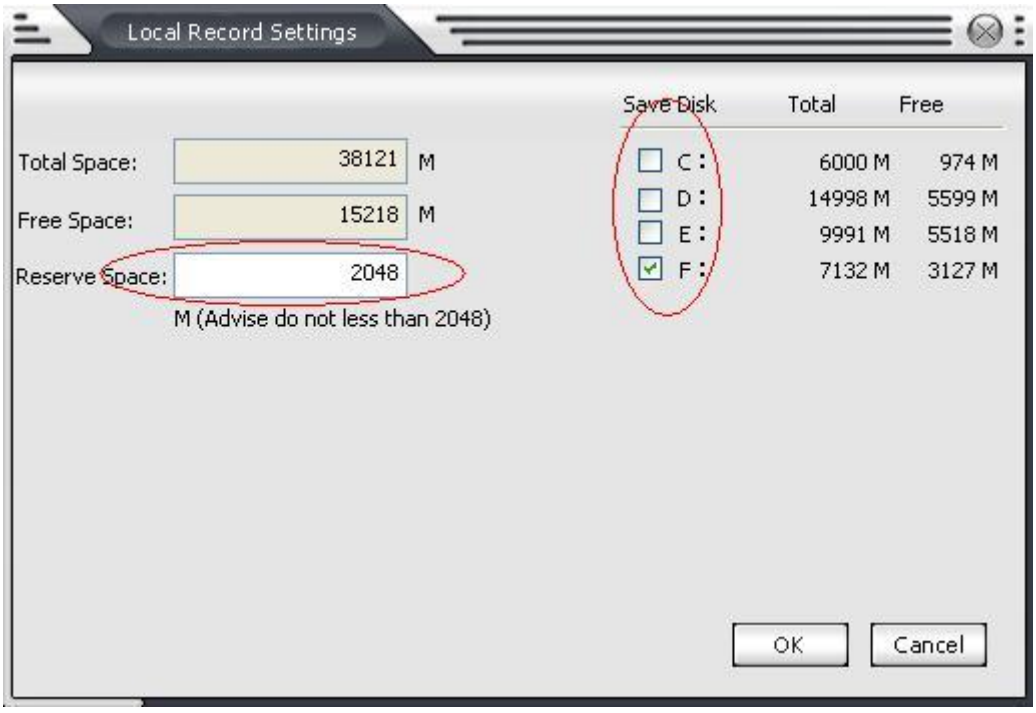
NoSignal that displays： If you choose this the monitor interface will refresh, When the video have disconnect, it will show No Signal, or else it will not refresh.

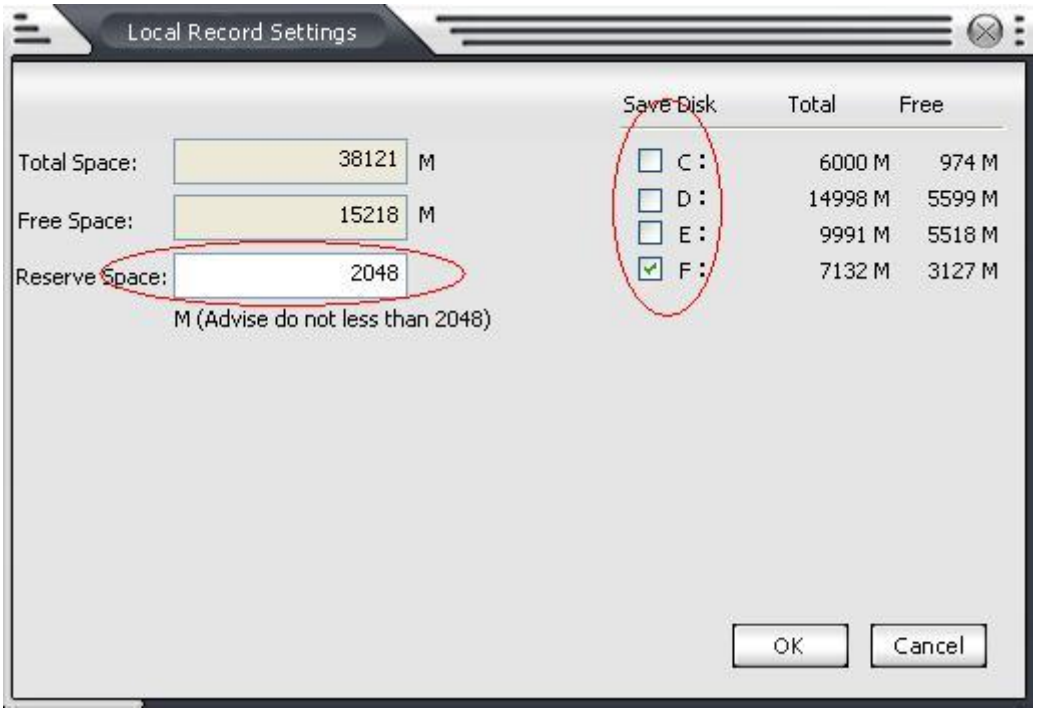
2.14. Configuration and Playback of Local Video

2.14.1. Configuration of Save Disk

Left click the “Local Video Setting and Playback” as the following picture shows:

Select the “Local Record Settings”, then enter into the configuration interface.





After the configuration of the storage disk and the space after recording (storage space), then press "OK'.

All the local videos are saved in NativeRecord file of the designated disk.

2.14.2. To Start Record

Enter into the Multiplayer surveillance system, open the video, select the camera of which you want to record the video, press "Local Record". Then a dialog box appears as the following picture shows:

"Timing Record" is a manual process which starts by clicking the local video and ends by clicking again. Every video recorded by the way of "timing record" lasts for ten minutes.

The recording caused by "Motion Detection" starts when the motion detection warns, ends when the motion detection ends. Within the period, there might be many records saved.

Attention: to record the videos caused by the way of motion detection is available when the function of motion detection is open. Or there is no video recorded.

After the configuration of the recording type, press "OK", the camera starts recording,

at that time the “Local Record” becomes “Stop Record”. The small red point on the left corner on the upside of screen tells us that the software is recording local video. The picture below shows the process:

Click “stop record” to stop the video-recording.

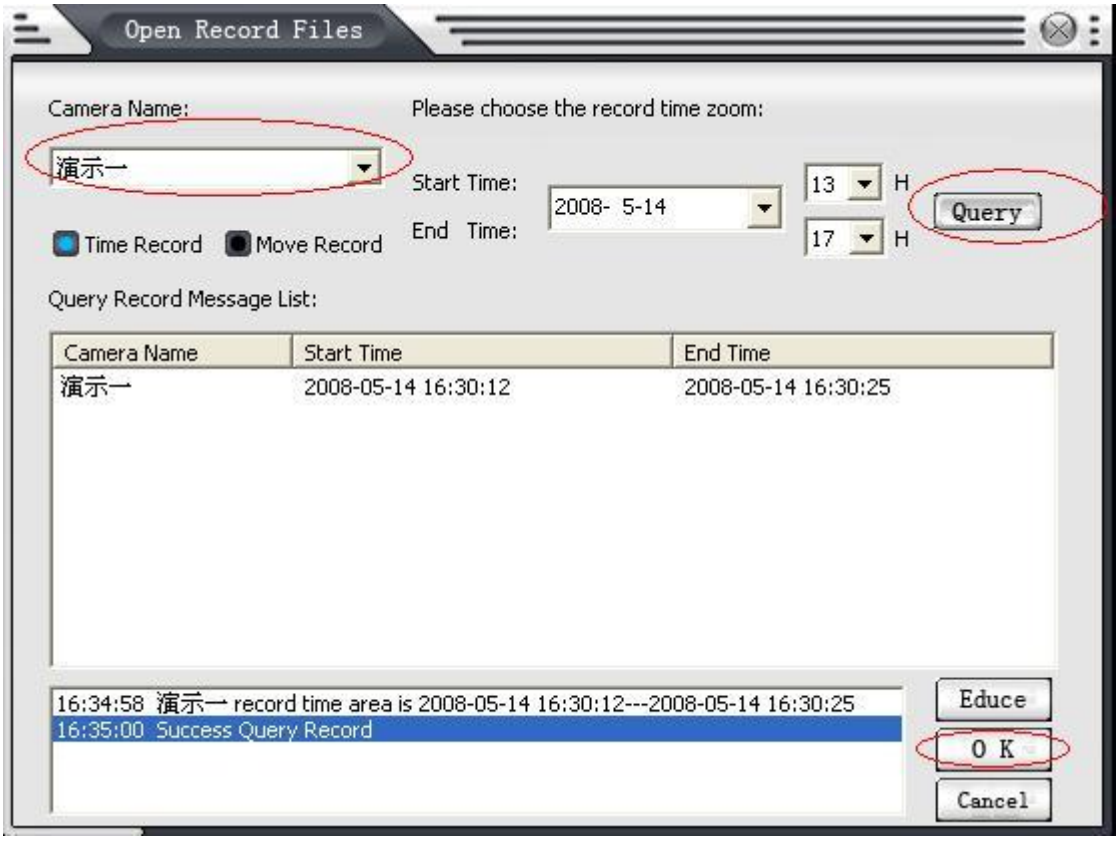
Attention: Please don’t modify the parameter of cameras or close the MultiPlayer when the local video is recorded, or the recording stops immediately.

2.14.3. Local Record Play

Click “Local Record Play” as the following picture shows:

Select the “Local Record Play”, the playback interface appears as the following picture shows:

Click “Open Record Files” button and enter into the “Open Record Files” interface as the following picture shows:



Choose the time period when the video is recorded, click "Query", then there are the local video in the list of video information. Click "OK" to playback the video; click "Educe " to transform the video into the video of AVI format which can be played by any player supporting AVI format.

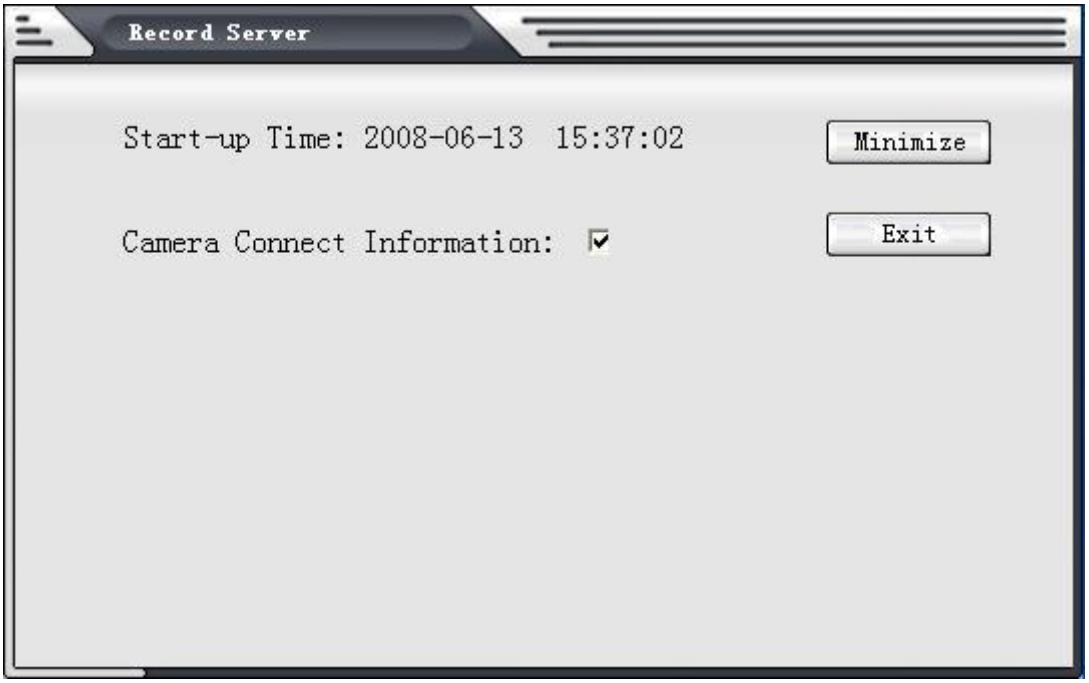
3. Record Server Software

Record Server Software is the implementation of the video server software。Run the Record Server Software on the host of the sever, which needs record videos, then the host becomes the server of recording and stores the videos produced in variety of types.

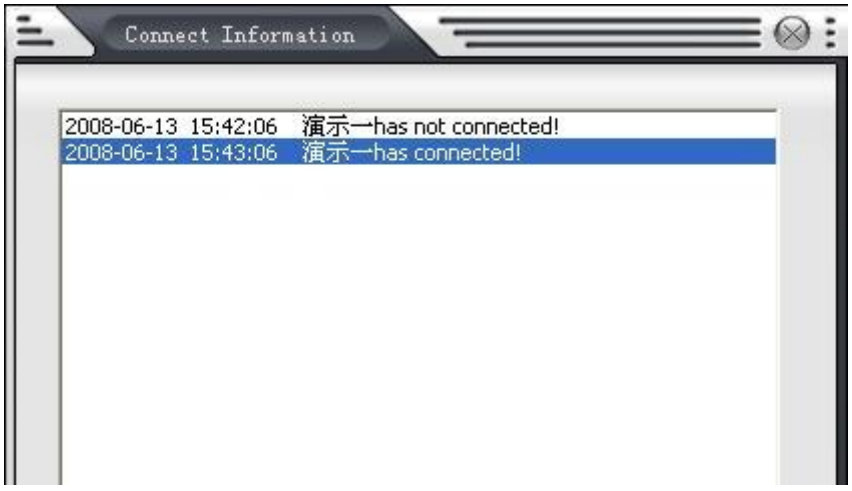
There is an shortcut icon on the table after the installation of the Record Server Soft as the following picture shows:

Double click the icon of "Record Server Soft", it is showed automatically in the task column as the following picture shows:

If you want to close the Record Server Soft, please click the icon of Record Server Software in the task column, the dialog box appears as the following picture shows:



The default setting has choose the “Camera Connect Information”, and the camera connect information will display on the pop window. Like this:



If you don’t want to display the connect information, you can uncheck it.
Click “Exit”, the validation of user’s name and password appears as the below picture shows:

Type in the correct user's name and password (default user's name is "admin", default password is not settled.). Quit by pressing "OK".

Attention: When you have finish setting record server software, it will scheduled create files in order to prevent from disk rag.

Attention: if you want to modify the right of using record server soft to others, please login the corresponding user management in "Record Server Soft Management".

4. Record Server Management System

User could configure the storage disk of the server, the recording data of all cameras, the right of using ; check the server log ; playback all the videos.

Please make sure that the "Record Serve Soft" is operating on the server before managing the Video Server.

4.1. To Login the System

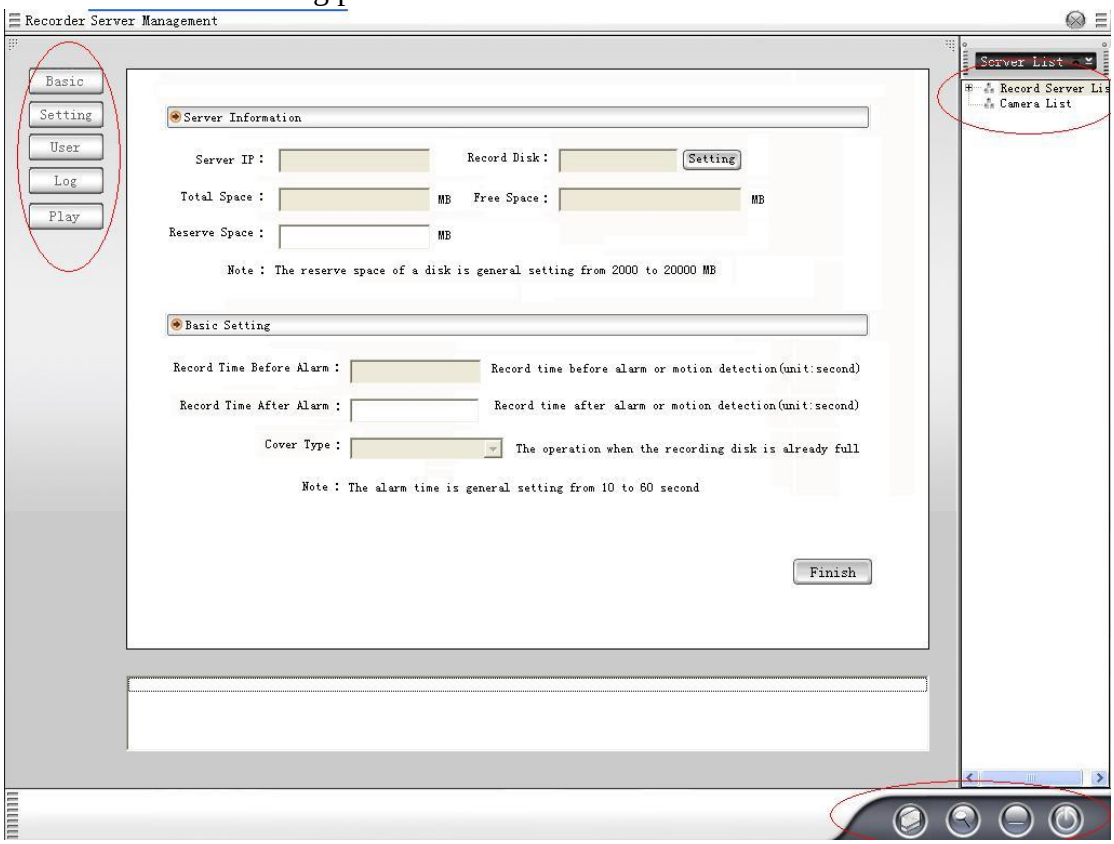
There is an shortcut icon on the table as the following picture shows:

Double click the icon, a dialog box appears as the following picture shows:

The login right of "Record Server Management System" is that the default user's name is "admin", the password is not settled. The user can modify the password. The login right is only the right to login the Record Server Management System.

4.2. Instructions of the System Interface

Type in the correct user's name and password then enter into the management system interface as the following picture shows:



Then buttons on the vertical direction on the left side of the interface control the storage equipment. On the right side are the "Record Server List" and the "Cameras List". The Two buttons in the red circle on the bottom are "Record Server Search" and "Camera Search" respectively from left to right.

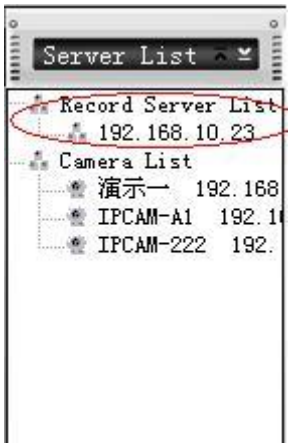
Attention: Record Server is the storage equipment where the videos are saved

4.3. To search for cameras and video server

Click “camera search” button, there is a menu from which you can choose “Auto Search Camera” which is selected when you watch video on the LAN or “Manual Search Camera” which is selected. The cameras found are showed on the list of cameras on the right side of the system interface as the picture below shows:

Click the “Record Server Search ” button, enter into the manual search interface as the following picture shows:

Type in the IP address of the record server, click “search” to search for the designated storage equipment which can be seen on the “List of Record Servers” as the following picture shows:



Attention: the function of record management available only when the “Record Server Soft” is working. If you want to search the cameras by hostname, you can see the way in DDNS.

4.4. The Allocation of Cameras

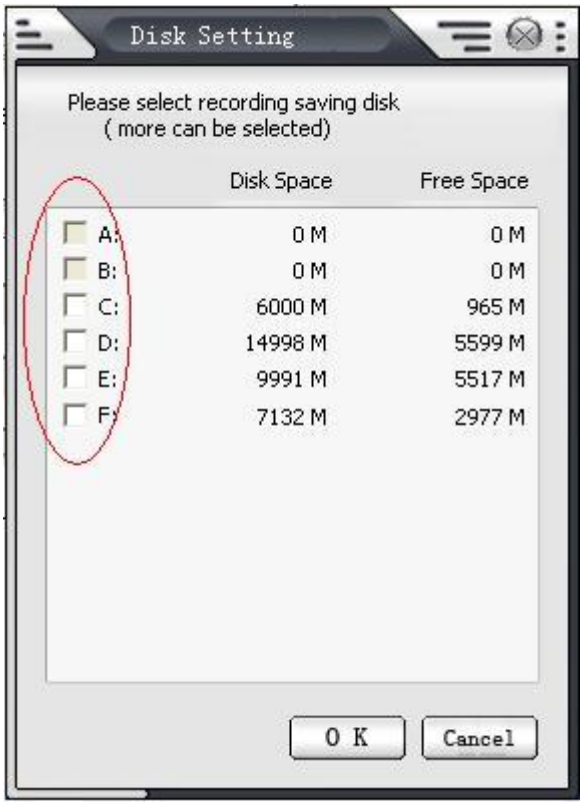
Before recording, you must drag the camera’s name to the designated record server. Each record server only controls the cameras under its own list.

This function facilitates the management of recording when two or more than two record server is used to fulfill the user’s need.

For example: the server can configure and manage the camera “DEMO ” which is dragged under the list of the record server “192.168.10.23”, but can not control the IPCAM-A1 which is not under the list of record server. The list after allocation becomes:

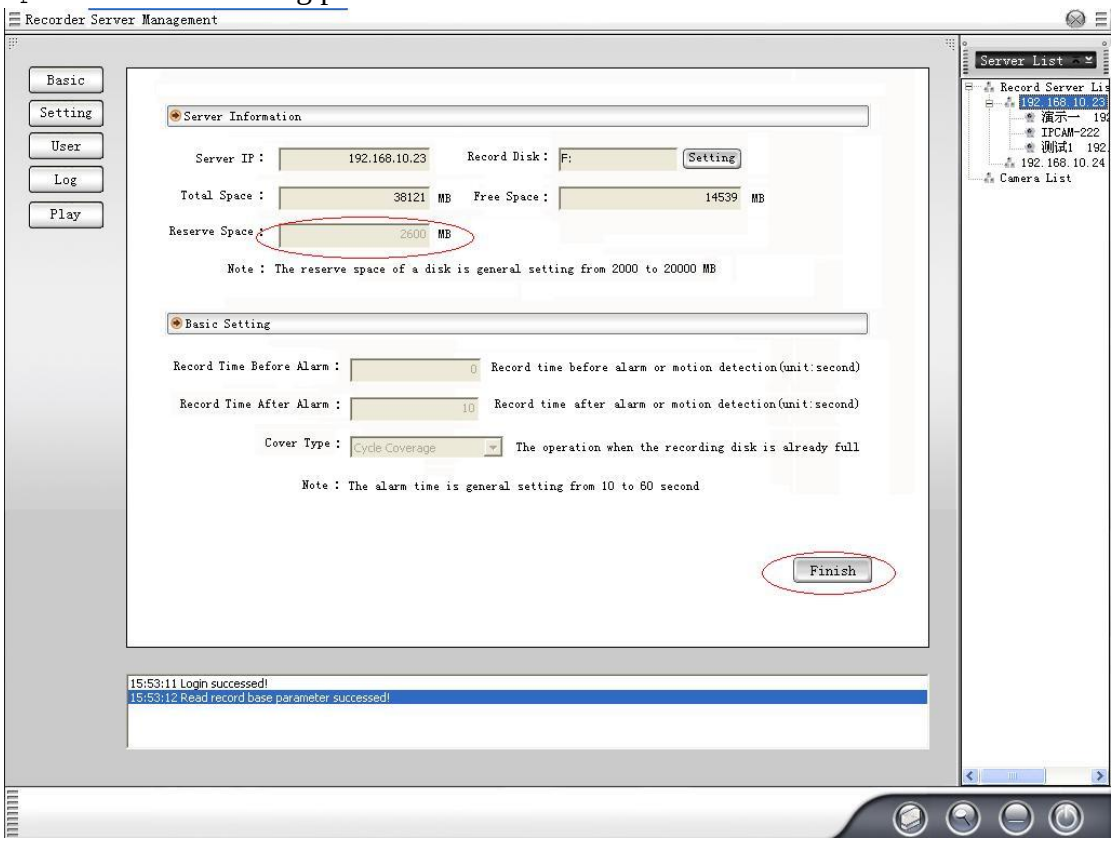
4.5. Basic

Double click the server name on the ”Record Server List”. The default name is admin, the password is not settled. After the system gets the information of the record server, click the “Setting” of “Storage Disk”, then enter into the disk setting as the following picture shows:



Select the disk where the videos are saved. More than one disk can be selected simultaneously. Then press "OK".

Return to the configuration interface of the record server to configure the "Reserved space" as the following picture shows:


Recorder Server Management
Basic
Setting
User
Log
Play
Server Information
Server IP : 192.168.10.23
Record Disk : F:
Setting
Total Space : 38121 MB
Free Space : 14539 MB
Reserve Space : 2600 MB
Note : The reserve space of a disk is general setting from 2000 to 20000 MB
Basic Setting
Record Time Before Alarm : 0 Record time before alarm or motion detection(unit:second)
Record Time After Alarm : 10 Record time after alarm or motion detection(unit:second)
Cover Type : Cycle Coverage The operation when the recording disk is already full
Note : The alarm time is general setting from 10 to 60 second
Finish
15:53:11 Login successed!
15:53:12 Read record base parameter successed!
Server List
Record Server List
Camera List

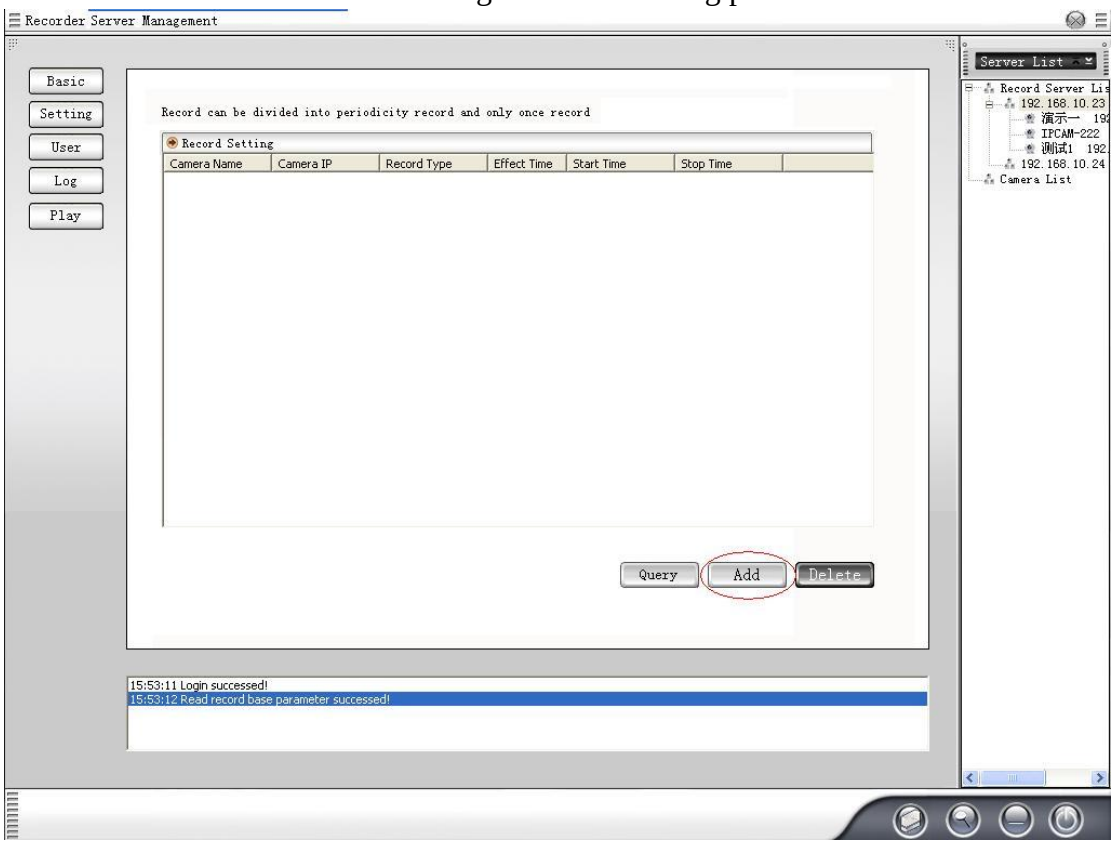
Except for the space the videos take, the left space of the disk should be at least 2048M.

After the “Reserved space”， and click “Finish”.

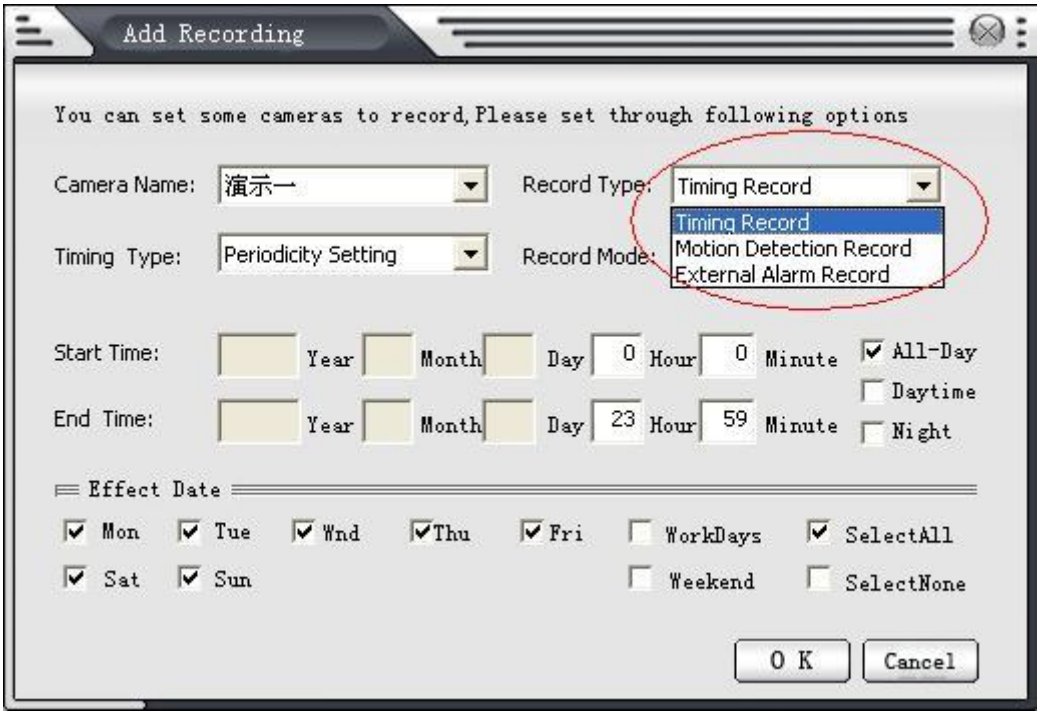
The system will automatically save the video files on the designated disk. The files are automatically covered by new ones.

4.6. Setting

Enter into the interface of the ”Setting” as the following picture shows:

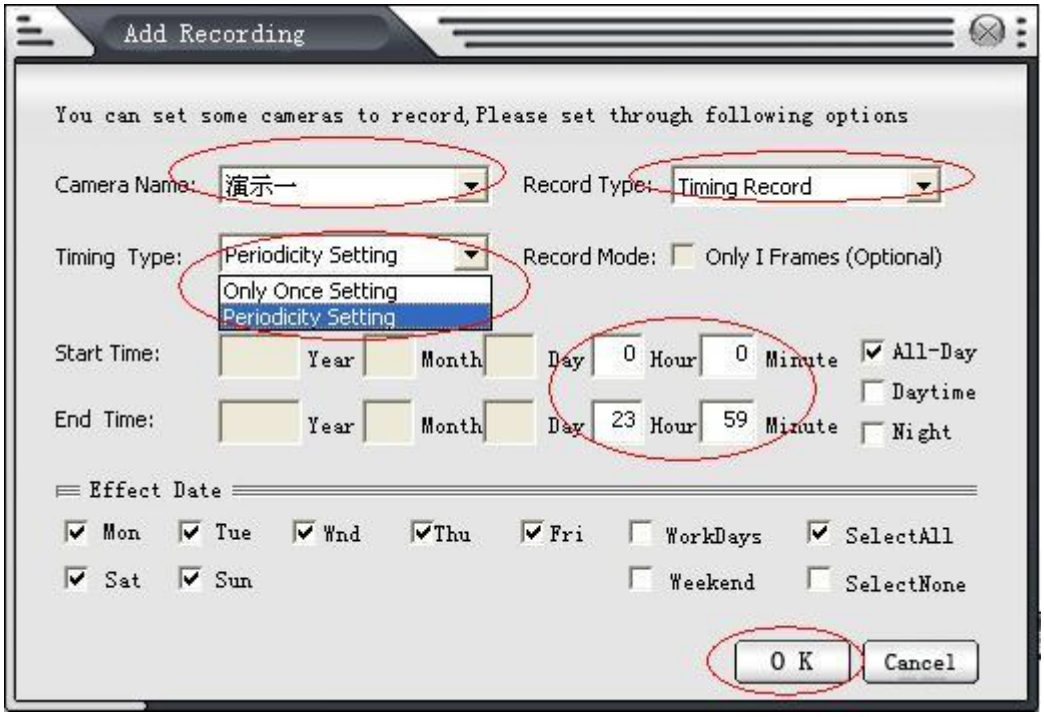


Please click “Add” to add new cameras, then enters into Add Recording interface as following picture:



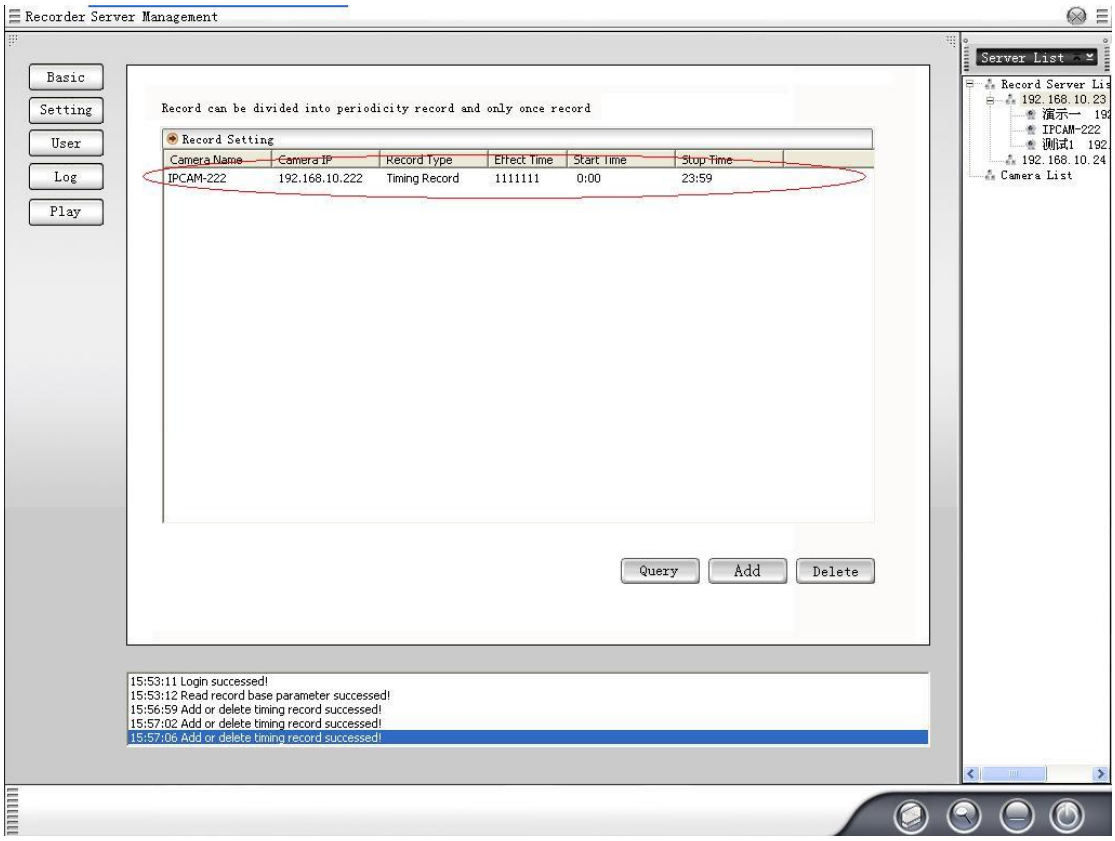
The camera name which is dragged from the list of cameras to the designated server list is showed on the camera name list. Pick up the camera you want to configure, select the one of three types in the "Record Type".

If you select "Timing Record", the software can record the videos cyclically in a long time or record video once only at a certain time. The picture below shows the condition:



Then configure the time interval and click "OK".

The record task is displayed on the record configuration interface as the following picture shows:

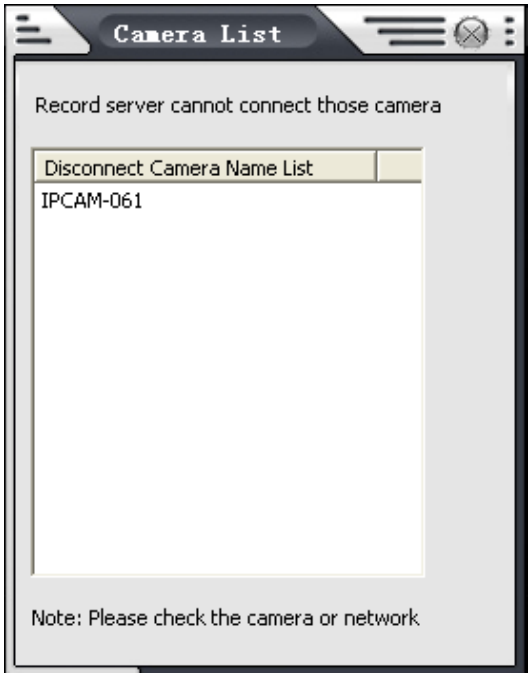


If there is any error on the video task, user can select the record task on the List of Tasks, then click “Delete” button to delete the record task.

When you reenter into the “Setting” interface, the record tasks which are set up before is invisible, you can click “Query” to enter into enquiries interface

You can select any way to search for the videos which are set up before.

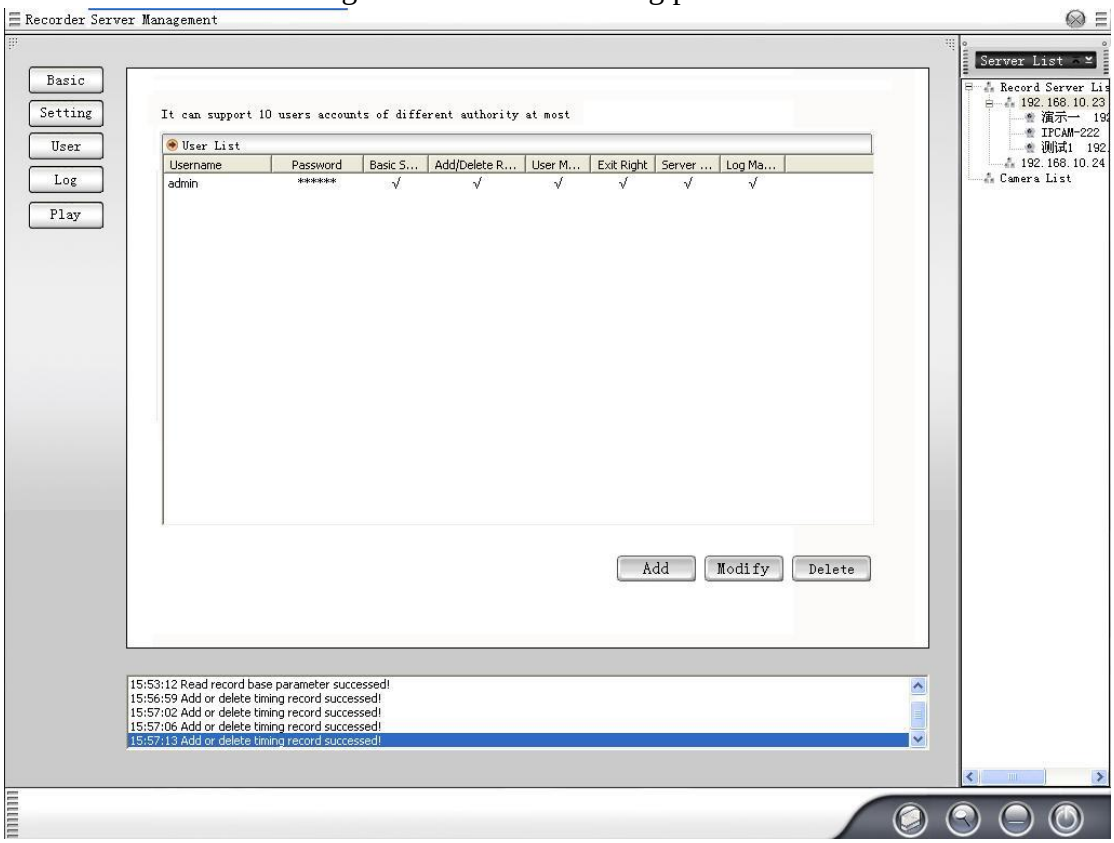
If you have setting some camera to record but those camera have not connect to the record sever software, when you double click the record server list, the record server management will pop a window like the picture below to warn you.


Camera List
Record server cannot connect those camera
Disconnect Camera Name List
IPCAM-061
Note: Please check the camera or network

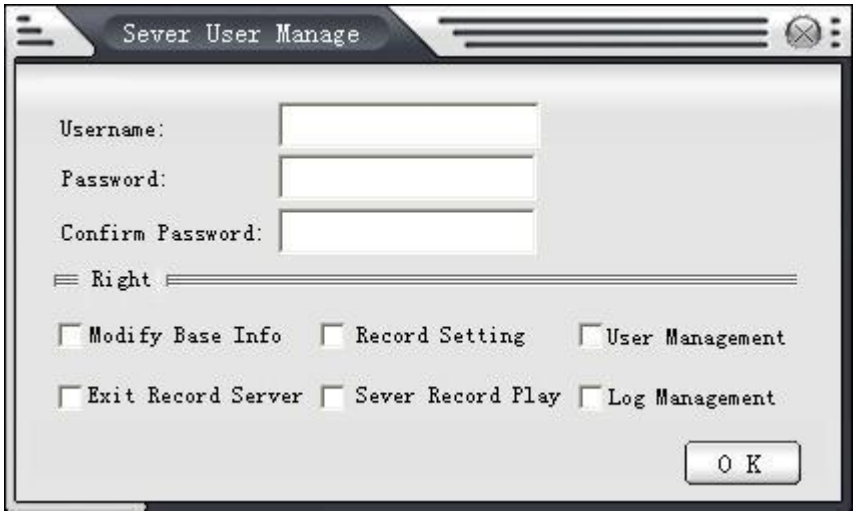
4.7. Users

In the "User Management", the user can configure the right of using of the designated record server. The right of using includes the right to quit from the record server software.

Enter into the "User Management" as the following picture shows:



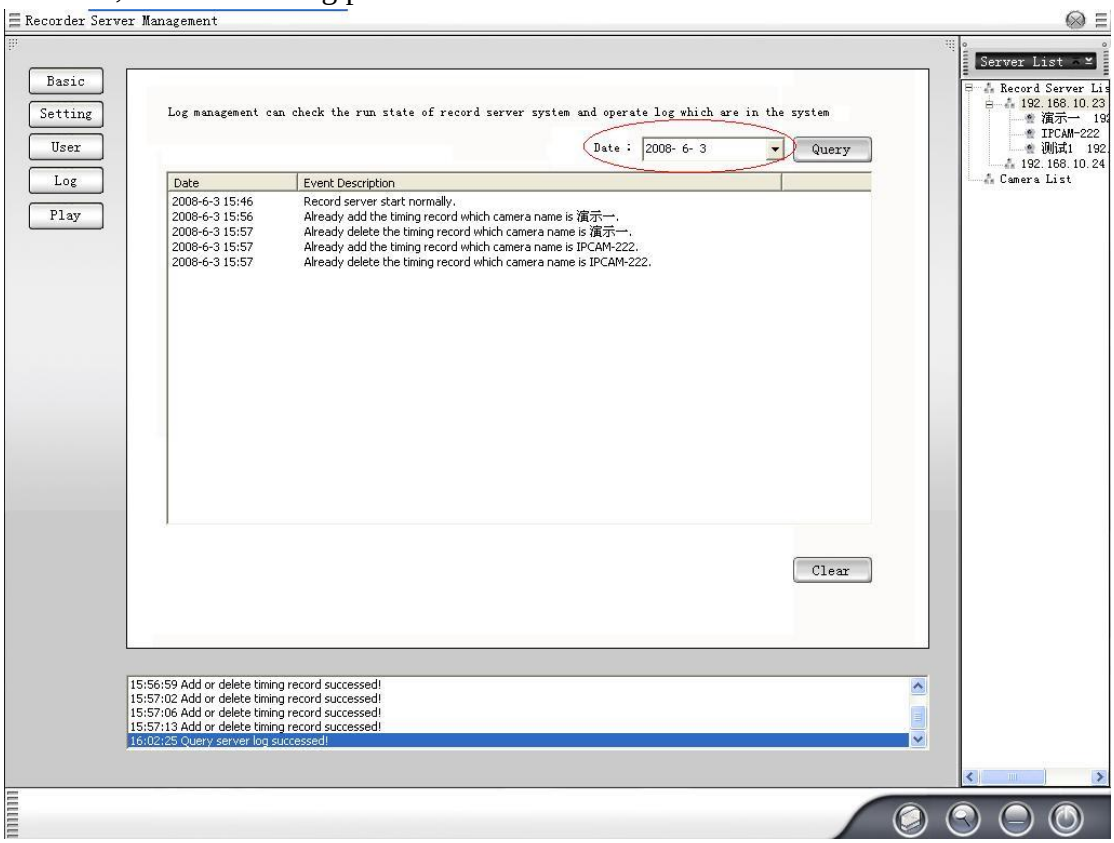
The default user's name of record server is admin, the password is not settled. The user can not only modify the password, but also add new user's name and corresponding password, giving different user' name different right of using. As the following picture shows:



The new user's name and the corresponding password can be added on the above interface.

4.8. Log

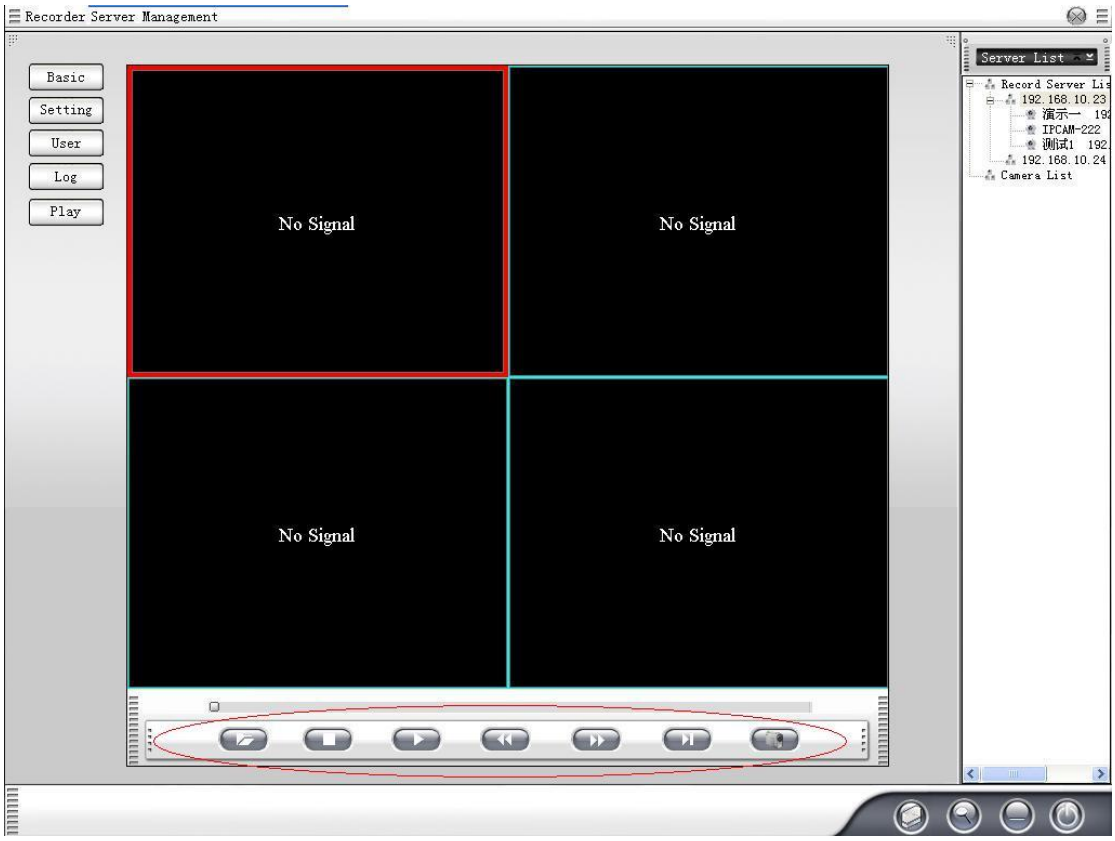
User can check all the operation performed on the server by entering the "system log" interface, as the following picture:



As the above picture shows, select "Query " to search for the system log.

4.9. Play

Enter into the "Play" interface as the following picture shows:

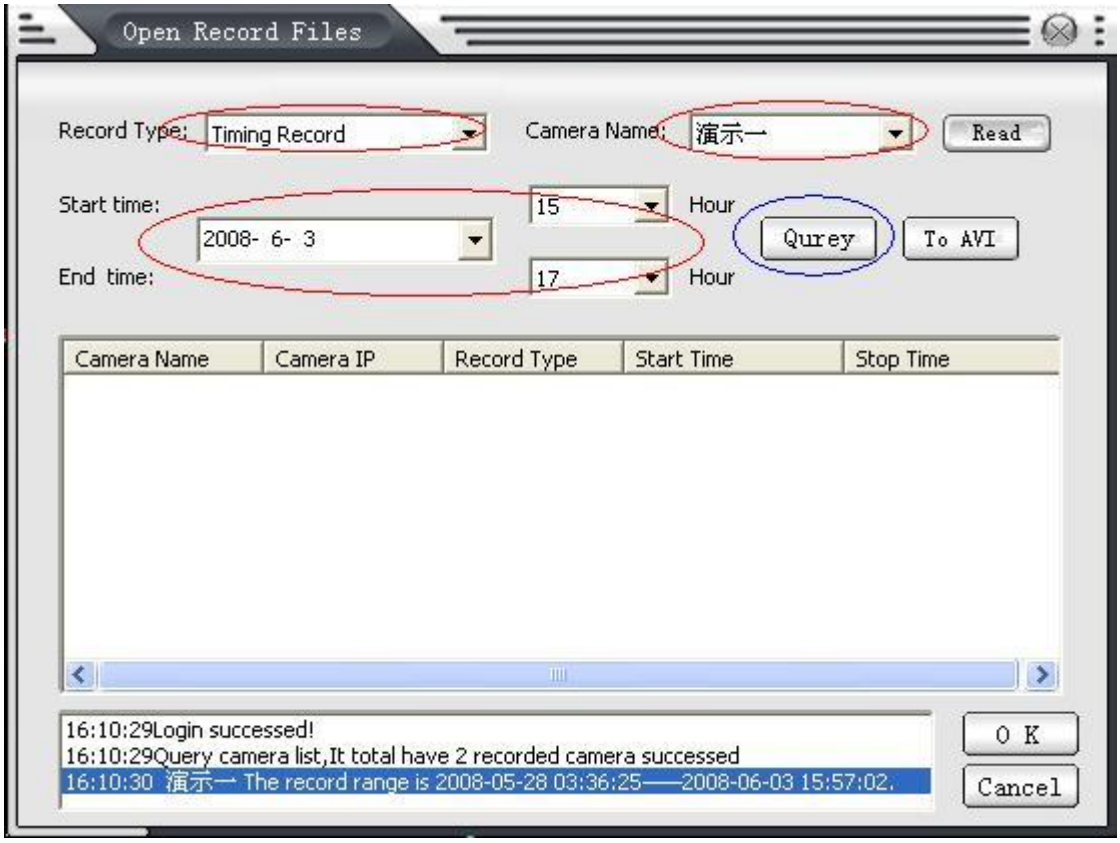


The central zone on the above picture is the zone where the video playbacks. The user can select one of the four windows to playback, or select more than one window to playback the videos from various cameras.

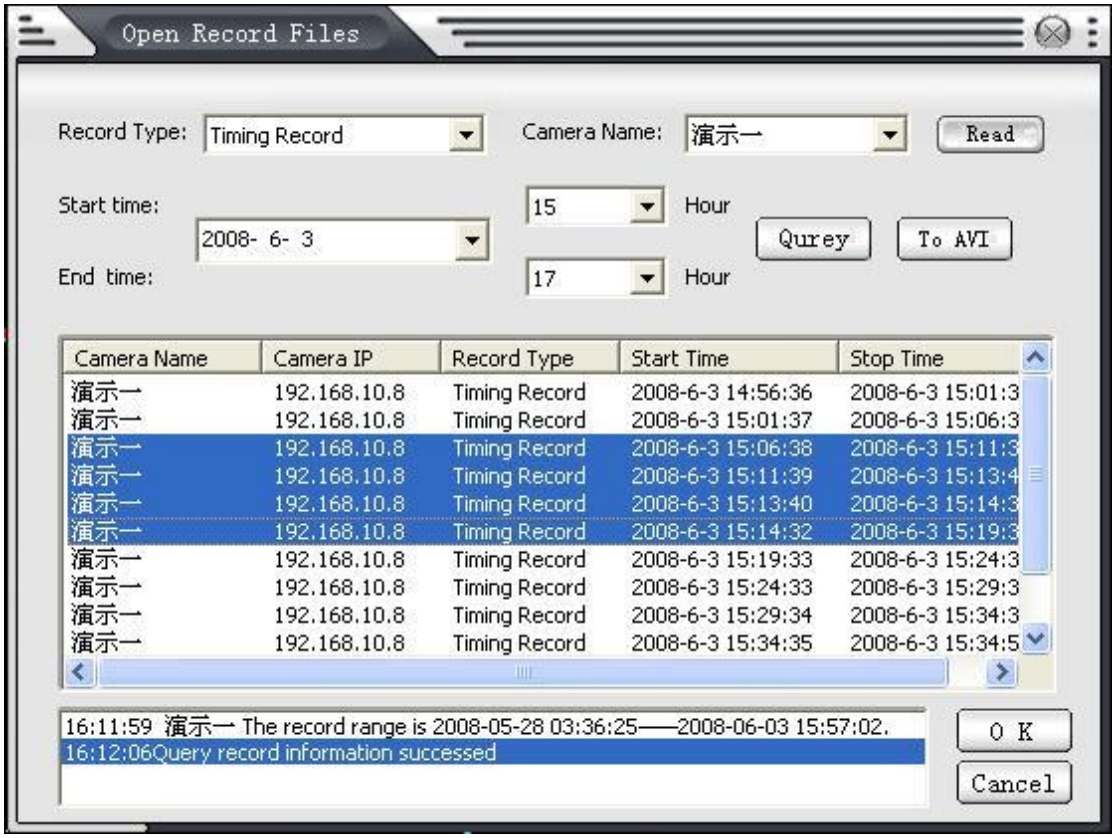
The zone in the red circle controls the process of playback. The instructions are seen when the mouse is moved on the button.

Click “Open the Video file” button or right click the playback window, select “Open the Video File”, then enter into the interface below:

Click “Read”，the storage information is present on the information bar as following picture shows:



According to the hint on the information bar, select the camera name whose video you like to playback, click “Query”，then all the videos on the designated time interval are present on the list of cameras as the following picture shows:



User can select one or more record at a time.

When choose the record, and click “To AVI”, The selected record will change the video format to AVI, and save to appointed place.

When choose the record, and click “OK”, Then it will directly play the selected record, like this:

"Play" supports the playback of four videos at one time.

5. **Addenda**

5.1.Mini High Speed Dome (10X Zoom Lens) Control Directory

Ⅰ. Remote Device Panel Directory：

Key-press	**Function**
direction key, left, right, up, down	Control the dome camera to turn, It used to choose menus or choose parameter in OSD menu operation.
Z+	Camera lens zoom in by multiple
Z-	Camera lens zoom out by multiple
S+	Add speed，when control the direction key to turn, press this key to add the turn speed.
S-	Reduce speed，when control the direction key to turn, press this key to Reduce the turn speed.
Auto	360 degree continuously turn
Open	When not in OSD menu mode, press this key to start zone scan（You should setting zone scan before start zone scan），when in OSD menu mode, it used to confirm setting.

OSD	Enter into camera lens OSD，It's mainly used to debug camera lens parameter.
Set	Enter into system OSD，It's mainly used to debug dome camera. Parameter.

Ⅱ.Dome Camera Control Keyboard Or Remote Device Basic Operation：

Key-press	**Function**（Keyboard：When use preset 91, it will display system setting OSD. Remote device：Press Set key enter into OSD.）
Rocker-Up	Choose the previous data
Rocker-Down	Choose the next data
Rocker-Left	Return the previous menu
Rocker-Right	Enter into the next menu
OPEN	Confirm key

Ⅲ.System OSD Menu Directory：

Menu Name		**Function**
SCAN SPEED：30	1-64	Control up or down direction key can choose the zone scan speed that you want to setting.
TOUR DWELL：05	1-30	Control up or down direction key can choose the preset point stay time that you want to setting.
PROPORTION：ON	ON/OFF	Control up or down direction key can enable or disable the speed matching.
AUTO REV ：ON	P/N/OFF	Control up or down direction key can choose the image positive and negative direction or close it.
SET PRESET：01	1-64	Control up or down direction key can choose the preset serial number, when press open key, it will display a sign of * on the side, then use the rocker to control the dome camera move to setting position, then press open key again and the sign of * will disappear, It's stand for the preset setting success.
CALL PRESET：01	1-64	Control up or down direction key can choose the preset serial number that you want to transfer. And then press open key to transfer the selected preset.
CALL TOUR： 01	1-4	Control up or down direction key can choose the cruise serial number that you want to transfer. And press open key to start cruise, then the OSD menu will disappear.
SET LEFT		When press open key, it will display a sign of * beside it, then use the rocker to control the dome camera to setting position, and then press open key, the sign of * will disappear. It stand for you have finish setting the left zone.

SET RITHT		When press open key, it will display a sign of * beside it, then use the rocker to control the dome camera to setting position, and then press open key, the sign of * will disappear. It stand for you have finish setting the right zone.
CALL SCAN		When press open key, it will start the zone scan, and the OSD menu will disappear.
SET PATTERN：01	1-4	Control up or down direction key can choose the design scan serial number that you want to transfer, then press open key, it will display a sign of * and a data, the data stand for the remain space of the memory， and then use the rocker to control dome camera, it will record all the path of the dome camera. When finish setting，then press open key，the sign of * and the data will disappear. It stand for the you have finish setting the design scan.
CALL PATTERN：01	1-4	Control up or down direction key can choose the design scan serial number that you want to transfer, and press open key to transfer the design scan, then the OSD will disappear.

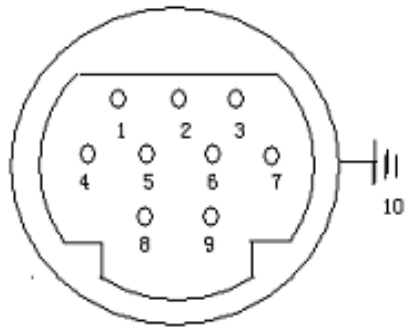
5.2. Mini High Speed Dome (10X Zoom Lens) Error Code

Error Code	Description	Resolve
01	The motor of the plumb direction have not detect origin position.	Manual move the plumb direction of the dome camera to plumb direction，then restart it，if the problem is still exist. Please return to factory repair.
02	The motor of the level direction have not detect origin position.	Return to factory repair.
03	The I^2C interface of the wafer have broken.	Return to factory repair.
04	24LC 256 have been block.	Return to factory repair.
05	Lack of voltage reposition，belong to normal power off.	You just need to restart it.

5.3. IP Camera Video Board Interface Signal Definition

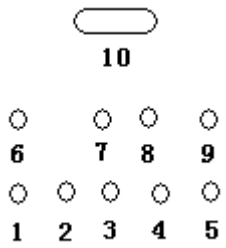
一、Each pin of the nine core terminal S correspondence signal application.
(Used for IP camera connect)

Pin Number	Signal Use	Signal Way	GPIO	Color
Pin 1	RS485 B-	Output		White
Pin 2	RS485 A+	Output		Purple
Pin 3	Device Warning signal Input Channel 1	Input	GPIO0	Yellow
Pin 4	Device Warning signal Input Channel 2	Input	GPIO1	Green
Pin 5	Device Warning signal Input Channel 3	Input	GPIO2	Blue
Pin 6	Device Warning signal Input Channel 4	Input	GPIO3	Jacinth
Pin 7	Device Warning signal Output Channel 1	Output	GPIO4	Red
Pin 8	Device Warning signal Output Channel 2	Output	GPIO5	Palm
Pin 9				
Pin10	Signal Earth	GND		Fuchsine



Each pin of the nine core terminal
S correspondence signal application

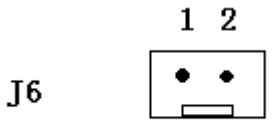
二、Each weld of the nine core terminal S correspondence signal application.
(User for IP Camera Video Board connect)



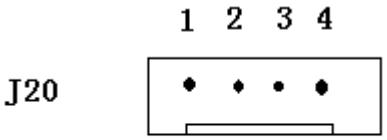
Each weld of the nine core terminal S（which has MCP-4010 CMOS chip on side）number sketch map

Weld Number	Signal Use	Signal Way	GPIO	Remark
1	RS485 B-	Output		
2	RS485 A+	Output		
3	Device Warning signal Input Channel 3	Input		
4	Device Warning signal Input Channel 4	Input		
5	Device Warning signal Input Channel 1	Input		
6	Device Warning signal Input Channel 2	Input		
7	Device Warning signal Output Channel 2	Output		
8				
9	Device Warning signal Output Channel 1	Output		
10	Signal Earth	GND		

三、Video Signal Interface(Which has MPG-440A CMOS chip on side)Pin definition.

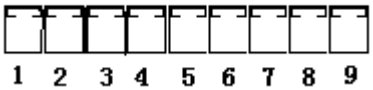


J6_1 ： BNC Video Output VIDEO-
J6_2 ： BNC Video Output VIDEO+



J20_1：CCD Video Input VIDEO+
J20_2：CCD Video Input VIDEO-
J20_3：CCD DC12V Power Supply GND
J20_4：CCD DC12V Power Supply V+

四、9 PIN single row jack each pin corresponding signal use.
(Used For Video Server Connect)



Pin Number	Signal Use	Signal Way	GPIO	Remark
1	Signal Earth	GND		
2	Device Warning signal Input Channel 1	Input		
3	Device Warning signal Input Channel 2	Input		
4	Device Warning signal Input Channel 3	Input		
5	Device Warning signal Input Channel 4	Input		
6	Device Warning signal Output Channel 1	Output		
7	Device Warning signal Output Channel 2	Output		
8	RS485 A+	Output		
9	RS485 B-	Output		

5.4. Host Computer Configure

Operation System	Windows 2000 Home/Professional Windows Xp Windows Vista
CPU	Dual Core Inter Celeron E1500
Mainboard	GIGABYTE P31
Memory	Kingston 2G
Display Card	NVIDIA Geforce 9500GT
Hard Disk	Seagate 1000G, You had better use professional monitor hard disk.

5.5. Solution of problems

The solution of some problem cause by software

1. You can not search or connect the camera.

It may be cause by three matter.

a. The internet network have not connected.

Please make sure the camera, router and network card led on work state, if the led is normal please check the network wire.

b. Fire wall defend

When auto to search camera, the fire wall may pop the prevent dialog to protect system, if you

Choose to prevent you can not search the camera, you can close the fire wall and try again.

c. IP address have be used by other device

You can change the camera IP address and try again.

2. You can not view the video when connect the camera.

It may be cause by five matter.

a. Computer IP address and the camera IP address is not in the same segment.

Change the camera IP to the same segment of the Camera or change the camera segment.

b. Antivirus software prevent the video data.

Please disable the antivirus software or set the antivirus software to cancel scan Http 80 port.

c. DirectX Version to low

Please setup DirectX 9.0C or the version above it.

d. It may be affect by other video convert software.

The video software like hero3000, you just need to uninstall those software.

e. The display card driver version to low.

Please setup the latest drivers of the display card.

f. Http port (80 port) have be modify

If you have modify the http port, please use manual search to connect the camera.

3.The multiply system just only view one channel video.

At first you must make sure whether some camera can not connect, then open the camera configure, if the camera

Have enable multicast, please disable the multicast.

4.Local record problem

If you can not enable local record, please open the camera configure, if the camera have enable multicast, please disable the multicast.

If you have enable local record but can not record, please check whether you have setting the record disk, or the

Disk memory is not enough.

5. The camera video display green color.

You just need to restart the camera.

The solution of some problem cause by IE

1.Can not connect by IE

It may be cause by three matter.

a. Internet connection problem.

Please make sure the camera, router and network card led on work state, if the led is normal please check the network wire.

b. IP address have be used by other device

You can change the camera IP address and try again.

c. The computer IP address and camera IP address is in different child network, or the gateway

setting error.

Check the camera IP address whether in the same child network. And careful check you computer

IP , mask, gateway setting, make sure all the settings is right.

2.The video is not display

a. It the problem of the active control, when you use IE, you must download the active control, Please add the camera IP address to trust station , then refresh the IE and wait to download the active control, when the IE display hint dialog, you choose Yes to install the active control.

When finish install the active control, you will see the video.

b. The camera lens cover have not open.

3.Network delay.

The causation of network bandwidth The video update state

a. Video mode, video quality, network bandwidth.

b. Computer speed, Network Speed

c. Too many user to view the video

4、When the camera power on, the led shield, but you can not Ping the camera IP?

It is natural, when the camera resume to factory settings, the network camera need time to clear the camera system, and check the camera hardware, it usually paste thirty minute, please wait while it restart.

5、Why we can not use IE to view the camera when finish setting?

Because the camera IP and computer IP is not in the same segment, if the camera IP address is 192.168.1.255，mask is 255.255.255.0, so your computer IP address must between 192.168.1.0

and 192.168.1.254, the mask is 255.255.255.0 .

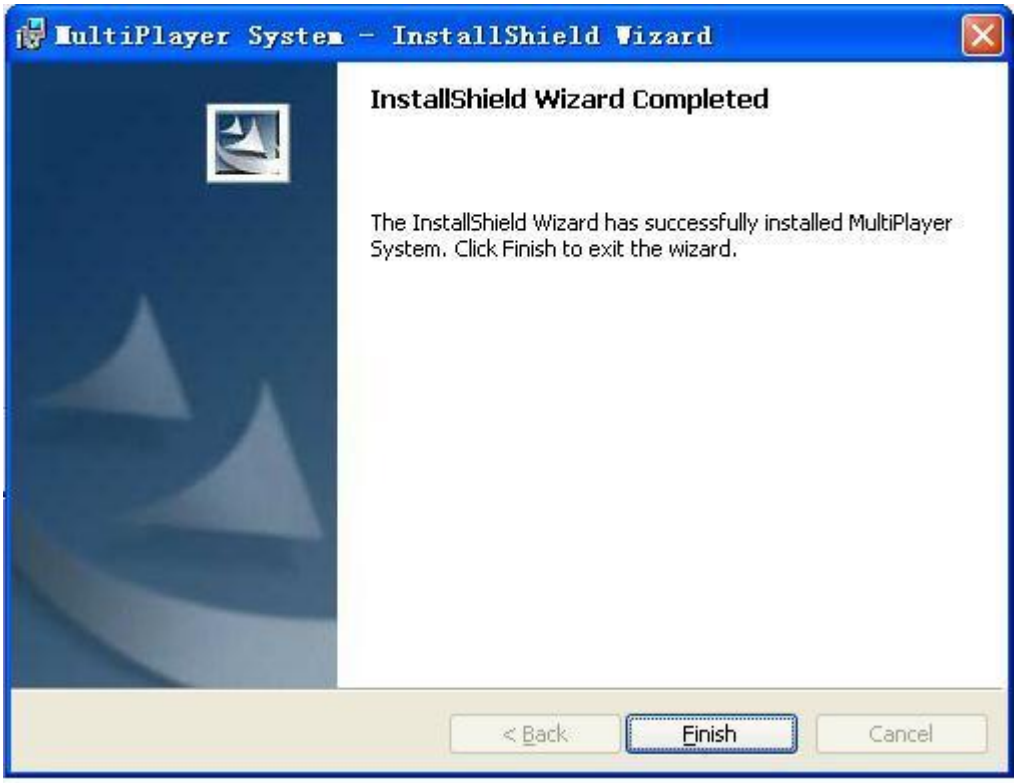
5.6. How to use the multiplayer System view camera video

Step 1: Installation the multiplayer system

Run “MultiPlayer_System.exe”, operate the program according to hints, then the dialog box below appears:

MultiPlayer System - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install MultiPlayer System to:
C:\Program Files\Network Video Monitor System\MultiPlayer System\
Change...
InstallShield
< Back
Next >
Cancel

If you choose “complete”, the software is installed on the default trace of the Microsoft system (C: Program Files\Network Surveillance System\Multiplayer surveillance system); If you choose “Change”, the trace of installation can be changed. Then press “next” to continue the installation. The installation program will automatically copy the necessary documents to the designated position and register necessary components, the picture below will appear after the finishing of installation.


MultiPlayer System - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed MultiPlayer System. Click Finish to exit the wizard.
< Back
Finish
Cancel

The whole installation is finished when you press “finish”. The icon of “Multiplayer” will appear on the table. It looks like the following picture shows:

Step 2: Login multiplayer system

Double Click the icon of MultiPlayer, there is a system login interface present as following :

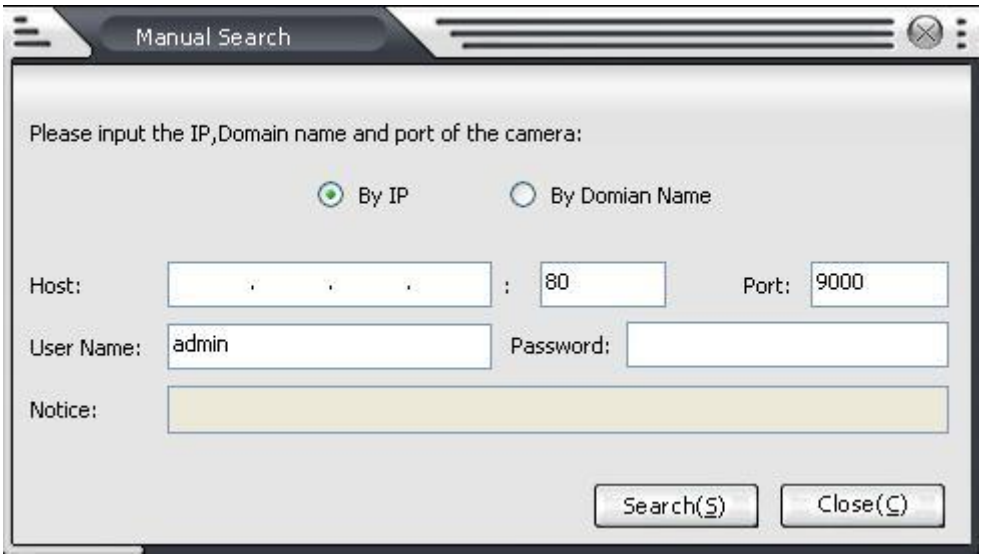
The default user's name which is unchangeable: admin. The password which can be changed as you like is not set up. After you type in the correct user's name and password, press "OK" , the picture appears

you can modify the password

Step 3: Searching the cameras

Move the mouse on the "camera searching" button, then there are two options "auto search" and "manual search". If the camera just works within the LAN, "auto search" would be chosen, while the camera is in the control system of long-range, the" manual search" would be chosen, the manual search dialogue appears:

Note: If you have change the camera http port(the default setting is 80), you must use manual search to open the camera, or else it can not open the video.



Type in the IP address and the port number.

The above operation is under the condition of searching camera by IP. If you search the camera through the domain name, please choose the way of “by domain name”.

When the camera has been found, the name of the camera will be on the list on the right side of the MultiPlayer. The picture below is the interface you will see:

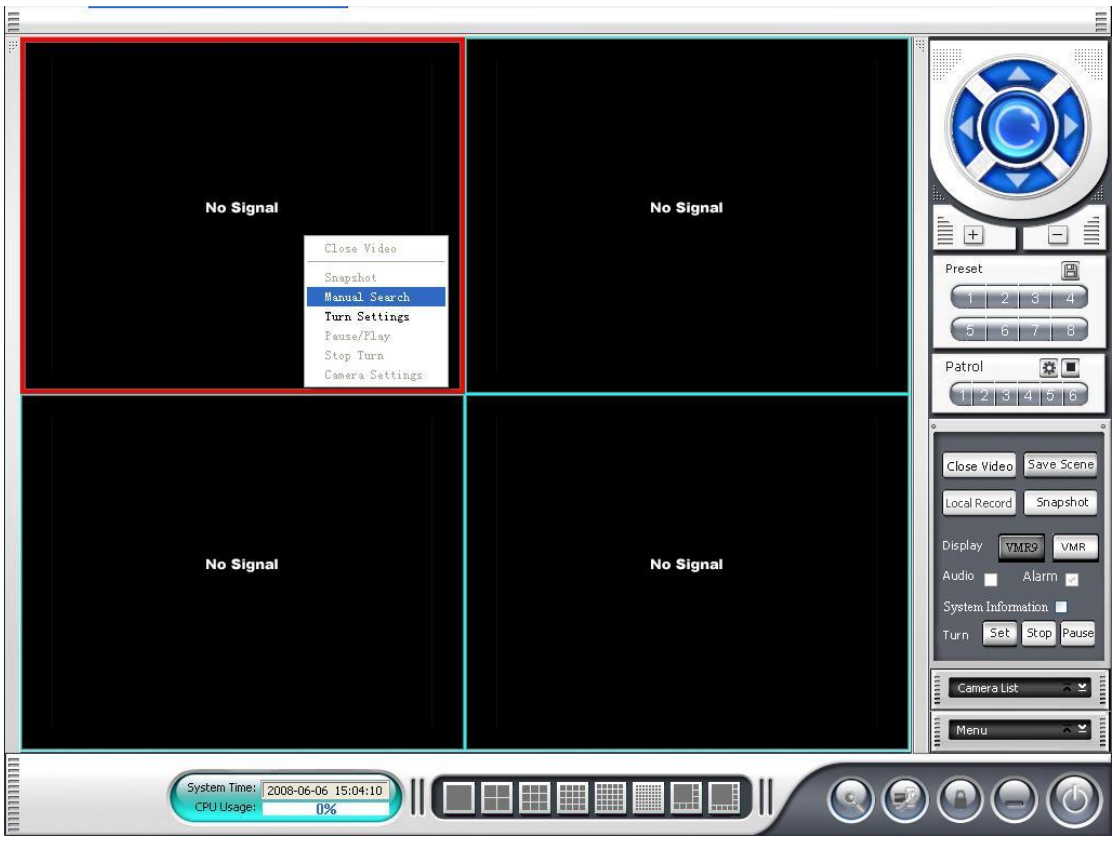
Step 4: To Open the Video(s)

a. open the video(s) from the list

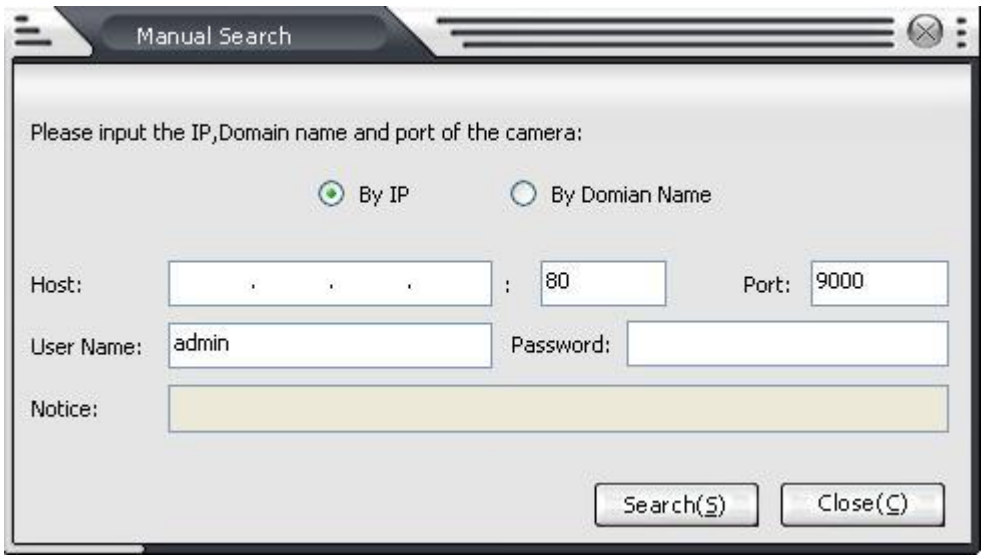
select the camera from the list of cameras, drag the camera's name directly to the video watching zone, type in the correct user's name and password, then you can surveillance the video(s).

b. open the video(s) from the window

Right click a window on the video watching zone, then the dialog box appears, select "Manual Search"



Then the picture transforms into "Manual Search".

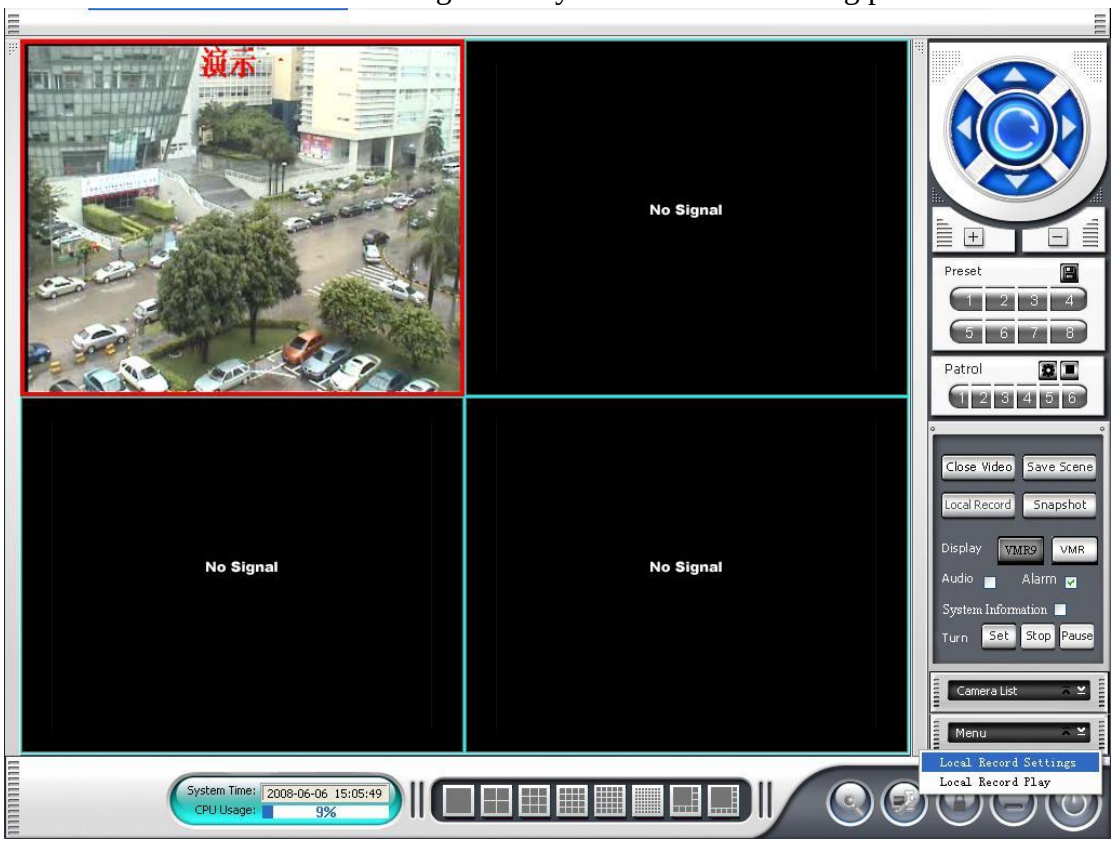


Type in the IP address or domain name of the IP camera you are going to open, the user's name and password, click "Search" then the video of the designated camera opens.

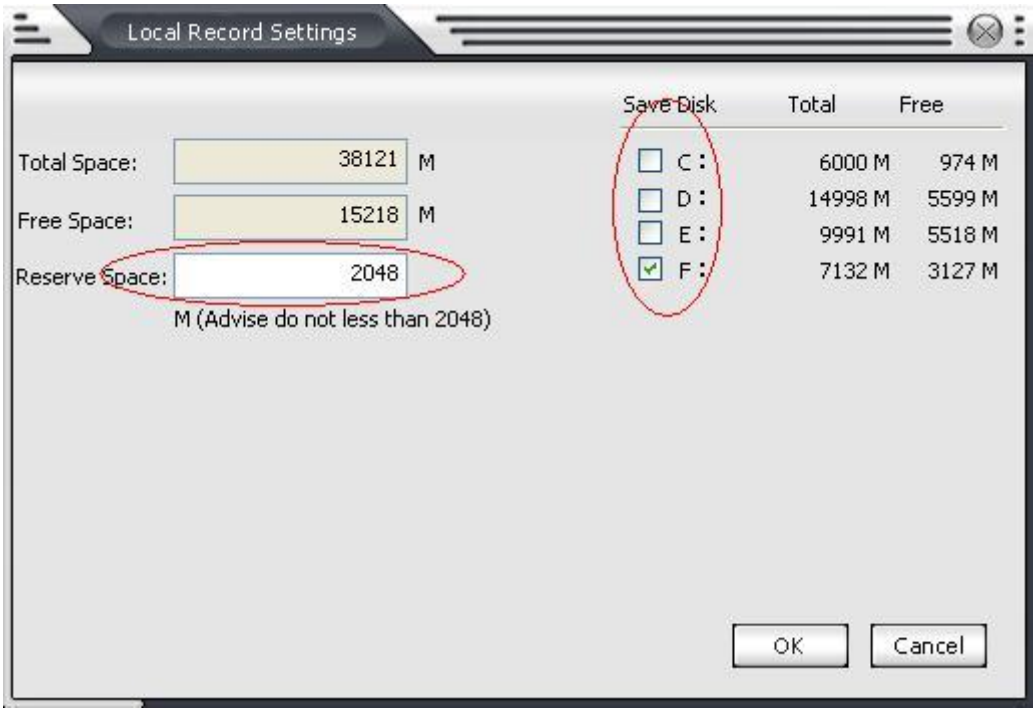
5.7. How to use local record

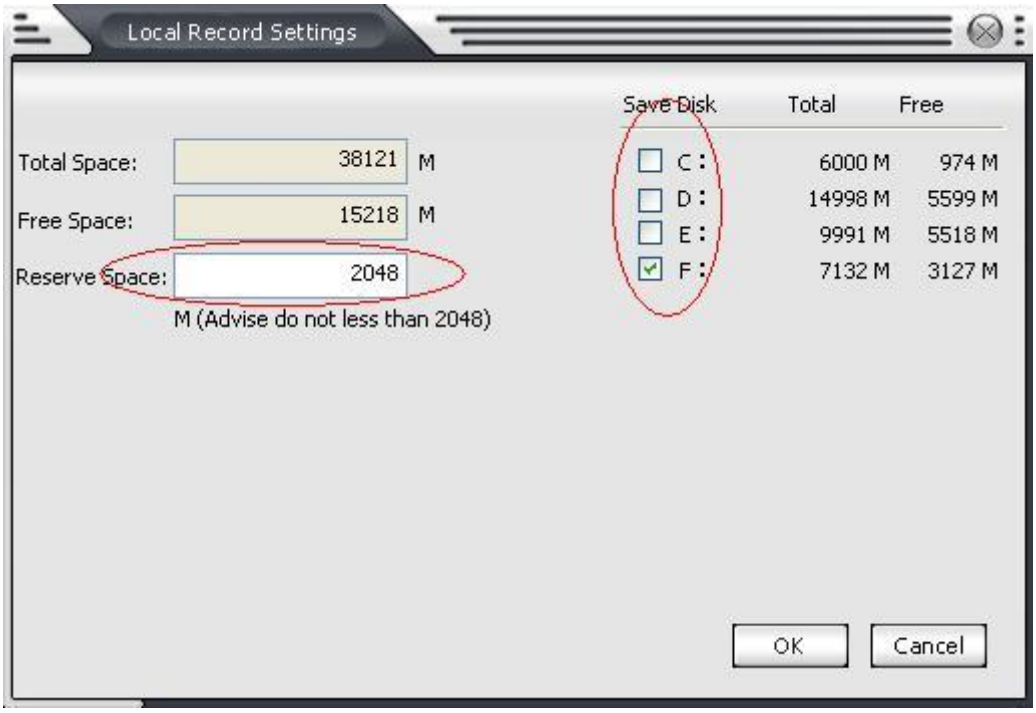
Step1: Configuration of Save Disk

Left click the “Local Video Setting and Playback” as the following picture shows:



Select the “Local Record Settings”, then enter into the configuration interface.





After the configuration of the storage disk and the space after recording (storage space), then press "OK'.

All the local videos are saved in NativeRecord file of the designated disk.

Step2: To Start Record

Enter into the Multiplayer surveillance system, open the video, select the camera of which you want to record the video, press "Local Record". Then a dialog box appears as the following picture shows:

"Timing Record" is a manual process which starts by clicking the local video and ends by clicking again. Every video recorded by the way of "timing record" lasts for ten minutes.

The recording caused by "Motion Detection" starts when the motion detection warns, ends when the motion detection ends. Within the period, there might be many records saved.

Attention: to record the videos caused by the way of motion detection is available when the function of motion detection is open. Or there is no video recorded.

After the configuration of the recording type, press "OK", the camera starts recording,

at that time the “Local Record” becomes “Stop Record”. The small red point on the left corner on the upside of screen tells us that the software is recording local video. The picture below shows the process:

Click “stop record” to stop the video-recording.

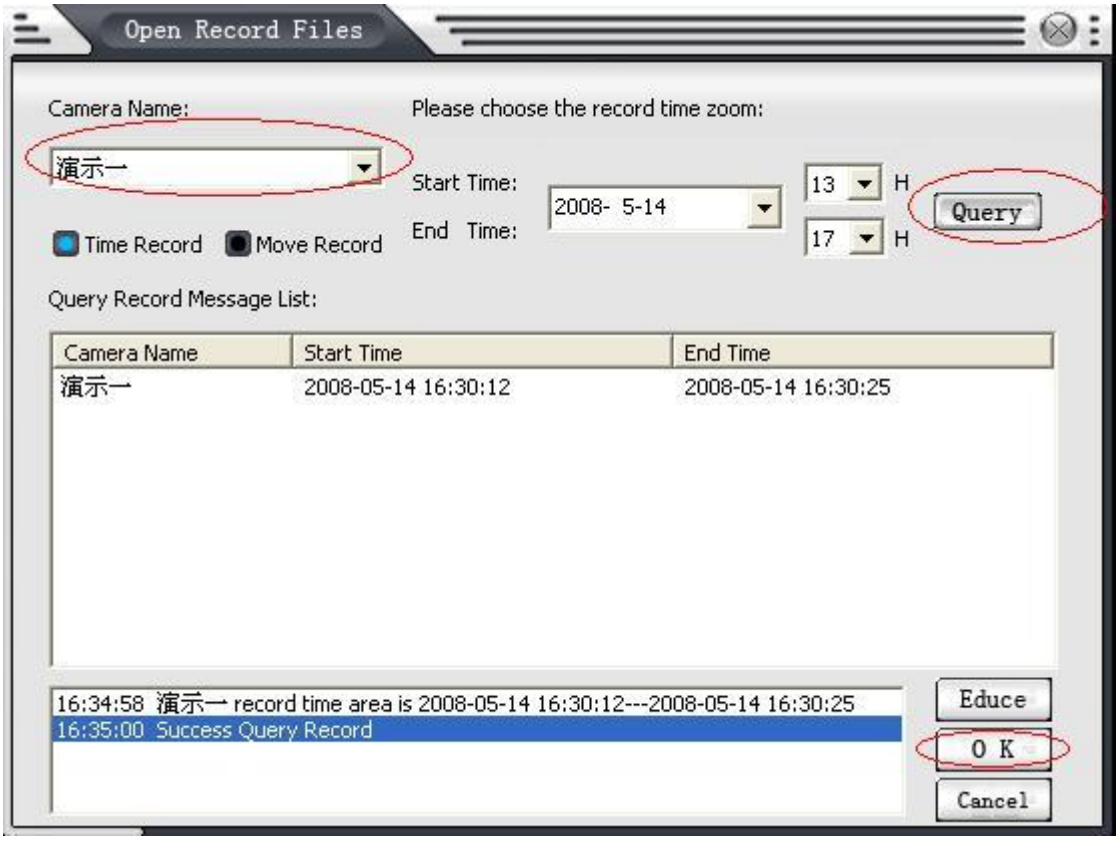
Attention: Please don’t modify the parameter of cameras or close the MultiPlayer when the local video is recorded, or the recording stops immediately.

Step3:Local Record Play

Click “Local Record Play” as the following picture shows:

Select the “Local Record Play”, the playback interface appears as the following picture shows:

Click “Open Record Files” button and enter into the “Open Record Files” interface as the following picture shows:



Choose the time period when the video is recorded, click "Query", then there are the local video in the list of video information. Click "OK" to playback the video; click "Educe " to transform the video into the video of AVI format which can be played by any player supporting AVI format.

5.8. How to use server record

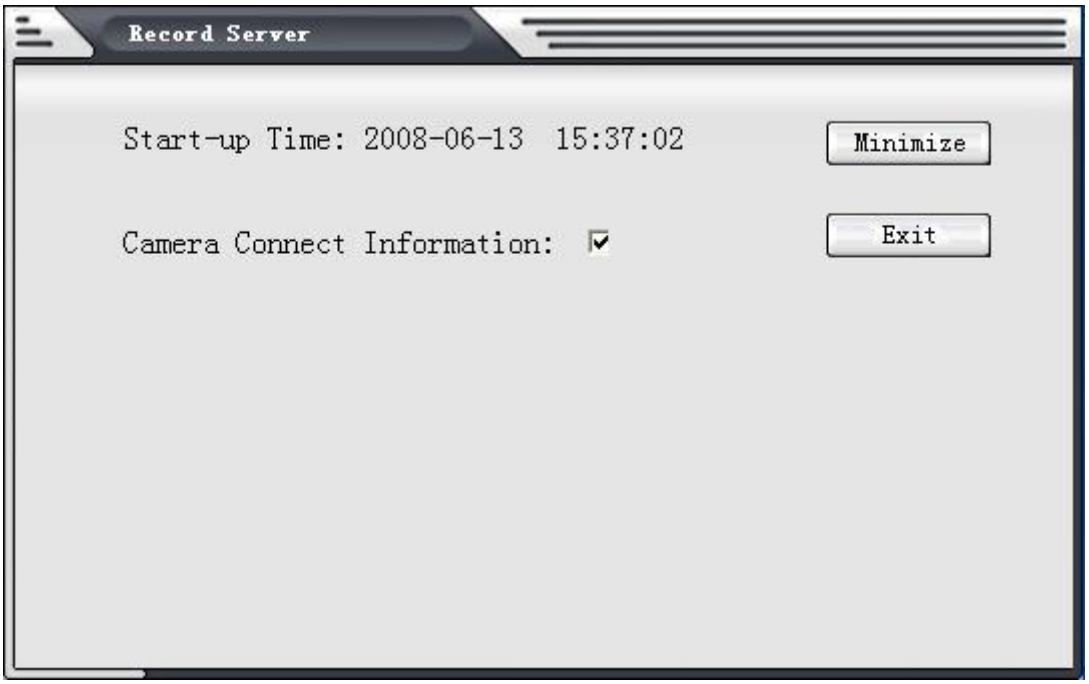
Step1:Open Record Server Software

Record Server Software is the implementation of the video server software。Run the Record Server Software on the host of the sever, which needs record videos, then the host becomes the server of recording and stores the videos produced in variety of types.

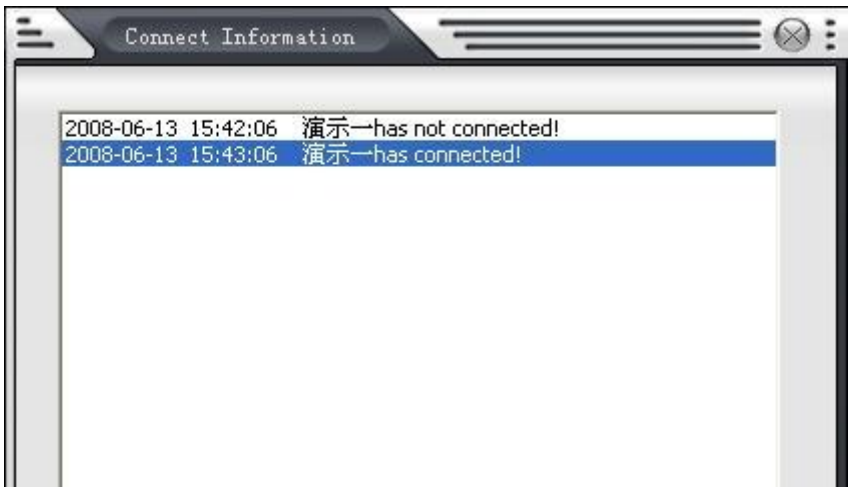
There is an shortcut icon on the table after the installation of the Record Server Soft as the following picture shows:

Double click the icon of "Record Server Soft", it is showed automatically in the task column as the following picture shows:

If you want to close the Record Server Soft, please click the icon of Record Server Software in the task column, the dialog box appears as the following picture shows:



The default setting has choose the “Camera Connect Information”, and the camera connect information will display on the pop window. Like this:



If you don’t want to display the connect information, you can uncheck it.
Click “Exit”, the validation of user’s name and password appears as the below picture shows:

Type in the correct user's name and password (default user's name is "admin", default password is not settled.). Quit by pressing "OK".

Attention: When you have finish setting record server software, it will scheduled create files in order to prevent from disk rag.

Attention: if you want to modify the right of using record server soft to others, please login the corresponding user management in "Record Server Soft Management".

Step2:Login Record Server Management System

There is an shortcut icon on the table as the following picture shows:

Double click the icon, a dialog box appears as the following picture shows:

The login right of "Record Server Management System" is that the default user's name is "admin", the password is not settled. The user can modify the password. The

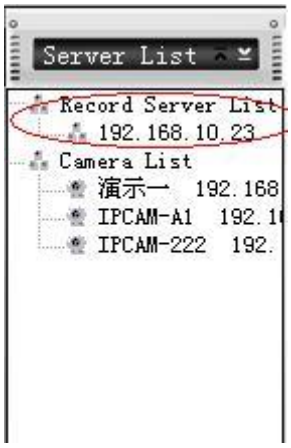
login right is only the right to login the Record Server Management System.

Step3:Search the record server and cameras

Click “camera search” button, there is a menu from which you can choose “Auto Search Camera” which is selected when you watch video on the LAN or “Manual Search Camera” which is selected. The cameras found are showed on the list of cameras on the right side of the system interface as the picture below shows:

Click the “Record Server Search ” button, enter into the manual search interface as the following picture shows:

Type in the IP address of the record server, click “search” to search for the designated storage equipment which can be seen on the “List of Record Servers” as the following picture shows:



Attention: the function of record management available only when the "Record Server Soft" is working. If you want to search the cameras by hostname, you can see the way in DDNS.

Step4: The Allocation of Cameras

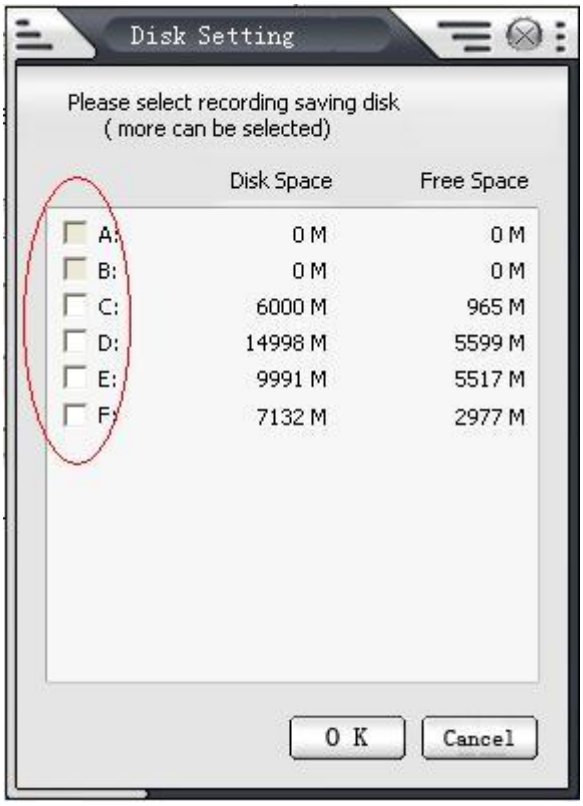
Before recording, you must drag the camera's name to the designated record server. Each record server only controls the cameras under its own list.

This function facilitates the management of recording when two or more than two record server is used to fulfill the user's need.

For example: the server can configure and manage the camera "DEMO " which is dragged under the list of the record server "192.168.10.23", but can not control the IPCAM-A1 which is not under the list of record server. The list after allocation becomes:

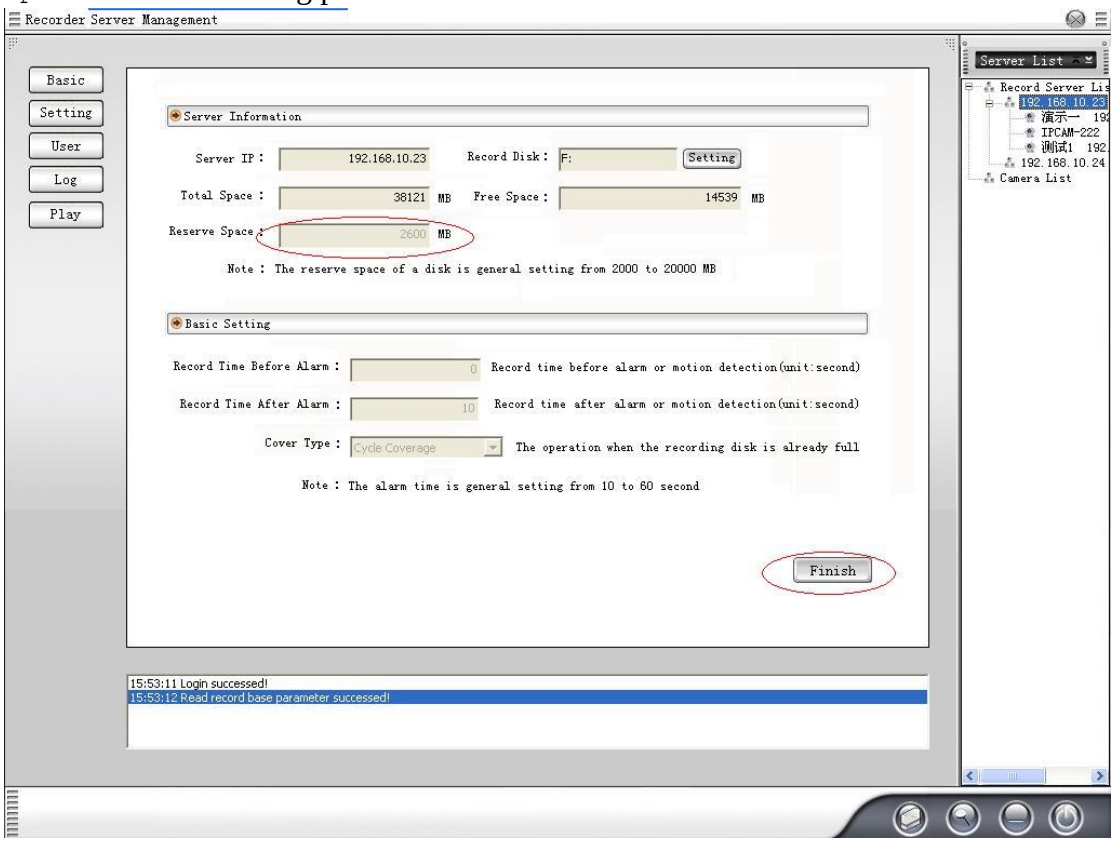
Step5: Basic setting of record server

Double click the server name on the "Record Server List". The default name is admin, the password is not settled. After the system gets the information of the record server, click the "Setting" of "Storage Disk", then enter into the disk setting as the following picture shows:



Select the disk where the videos are saved. More than one disk can be selected simultaneously. Then press "OK".

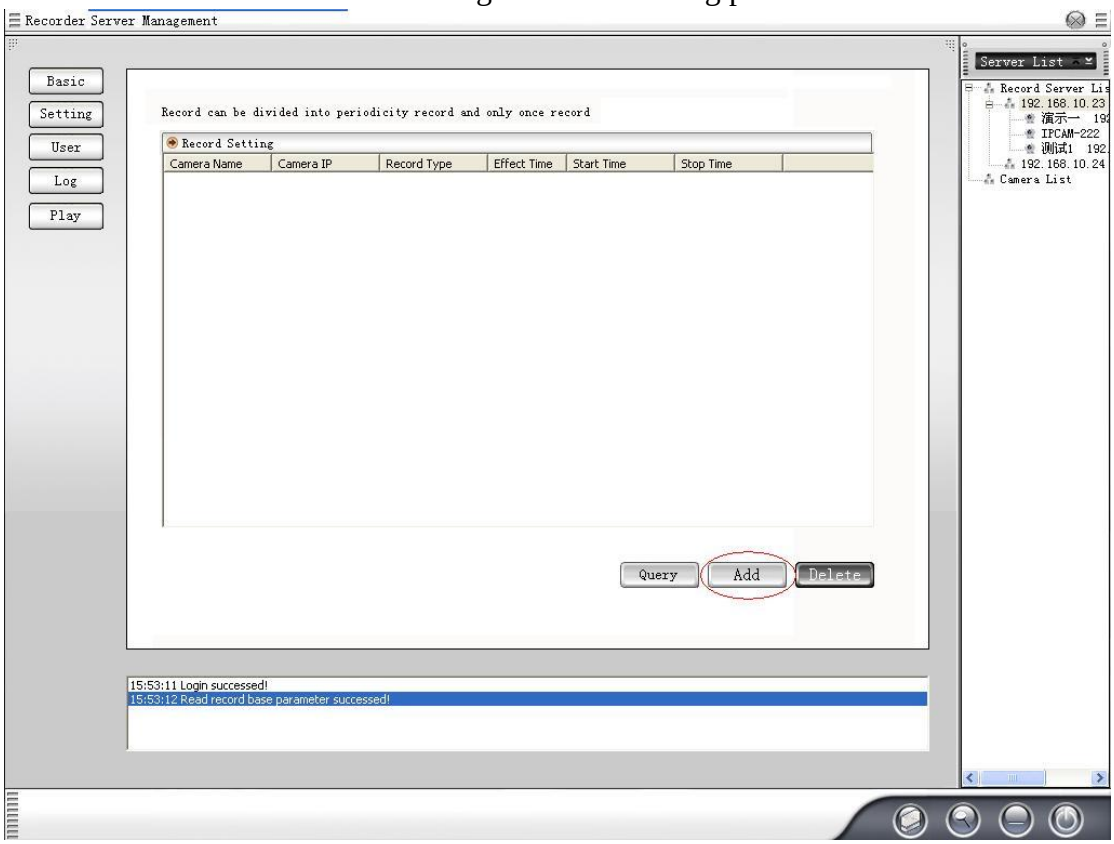
Return to the configuration interface of the record server to configure the "Reserved space" as the following picture shows:


Recorder Server Management
Basic
Setting
User
Log
Play
Server Information
Server IP : 192.168.10.23
Record Disk : F:
Setting
Total Space : 38121 MB
Free Space : 14539 MB
Reserve Space : 2600 MB
Note : The reserve space of a disk is general setting from 2000 to 20000 MB
Basic Setting
Record Time Before Alarm : 0 Record time before alarm or motion detection(unit:second)
Record Time After Alarm : 10 Record time after alarm or motion detection(unit:second)
Cover Type : Cycle Coverage The operation when the recording disk is already full
Note : The alarm time is general setting from 10 to 60 second
Finish
15:53:11 Login successed!
15:53:12 Read record base parameter successed!
Server List
Record Server List
192.168.10.23
演示一
IPCAM-222
测试1
192.168.10.24
Camera List

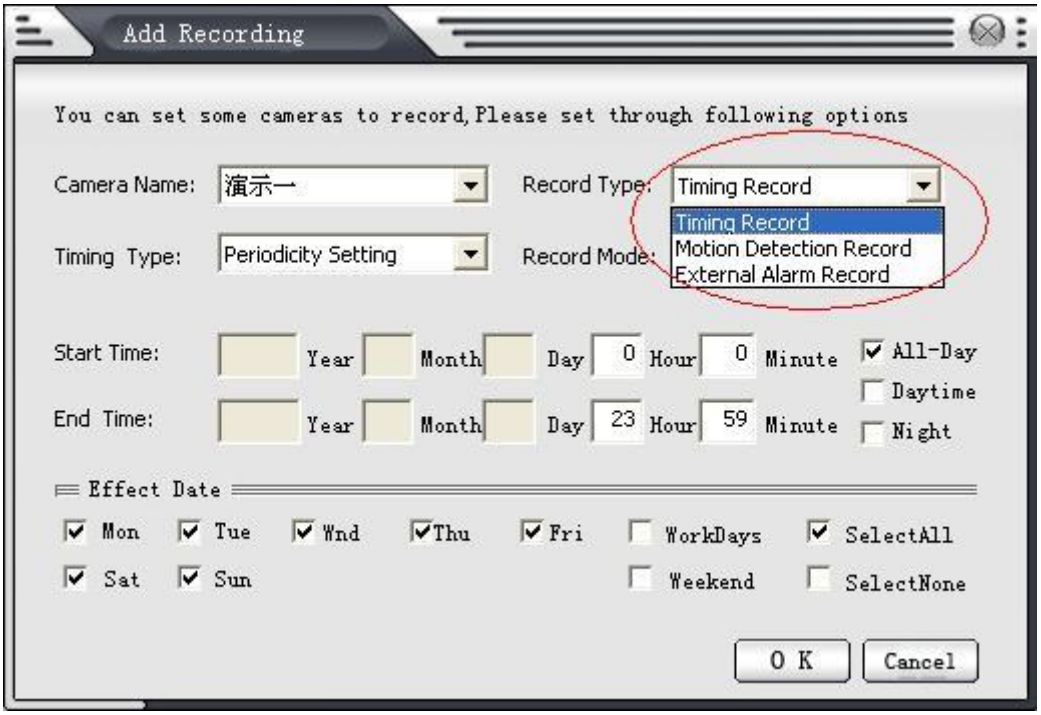
Except for the space the videos take, the left space of the disk should be at least 2048M.
After the “Reserved space”， and click “Finish”.
The system will automatically save the video files on the designated disk. The files are automatically covered by new ones.

Step6: Setting camera record

Enter into the interface of the ”Setting” as the following picture shows:

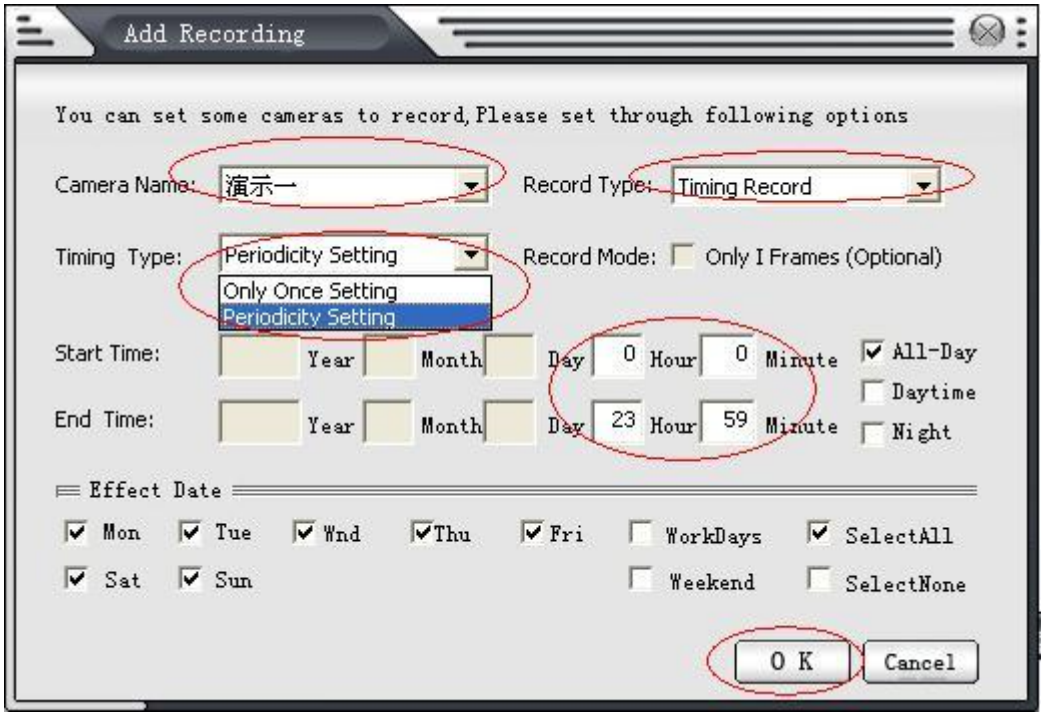


Please click “Add” to add new cameras, then enters into Add Recording interface as following picture:



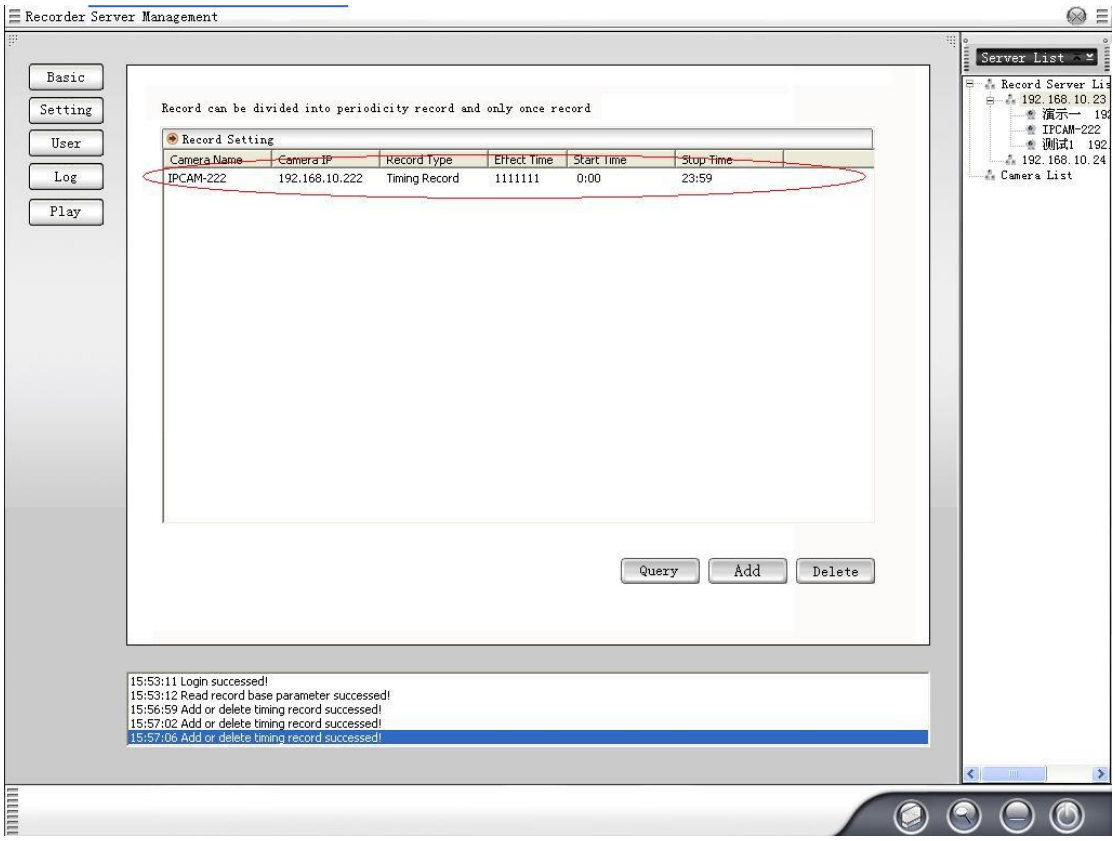
The camera name which is dragged from the list of cameras to the designated server list is showed on the camera name list. Pick up the camera you want to configure, select the one of three types in the "Record Type".

If you select "Timing Record", the software can record the videos cyclically in a long time or record video once only at a certain time. The picture below shows the condition:



Then configure the time interval and click "OK".

The record task is displayed on the record configuration interface as the following picture shows:

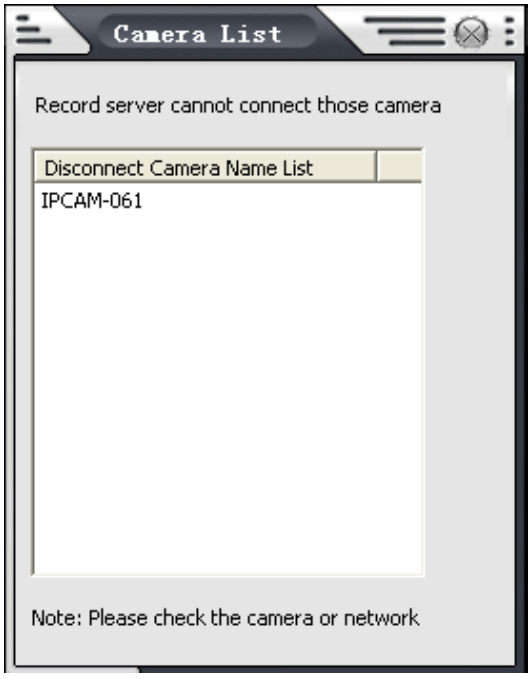


If there is any error on the video task, user can select the record task on the List of Tasks, then click “Delete” button to delete the record task.

When you reenter into the “Setting” interface, the record tasks which are set up before is invisible, you can click “Query” to enter into enquiries interface

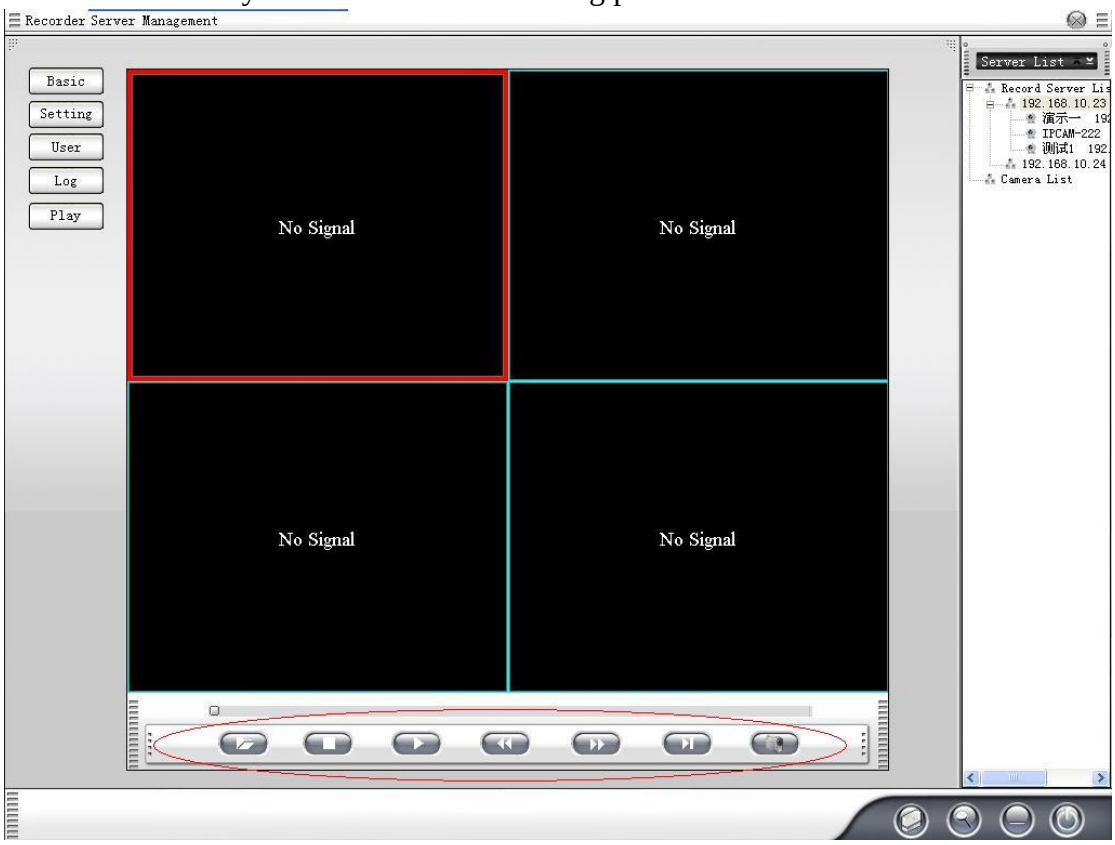
You can select any way to search for the videos which are set up before.

If you have setting some camera to record but those camera have not connect to the record sever software, when you double click the record server list, the record server management will pop a window like the picture below to warn you.


Camera List
Record server cannot connect those camera
Disconnect Camera Name List
IPCAM-061
Note: Please check the camera or network

Step7: Play the record

Enter into the “Play” interface as the following picture shows:

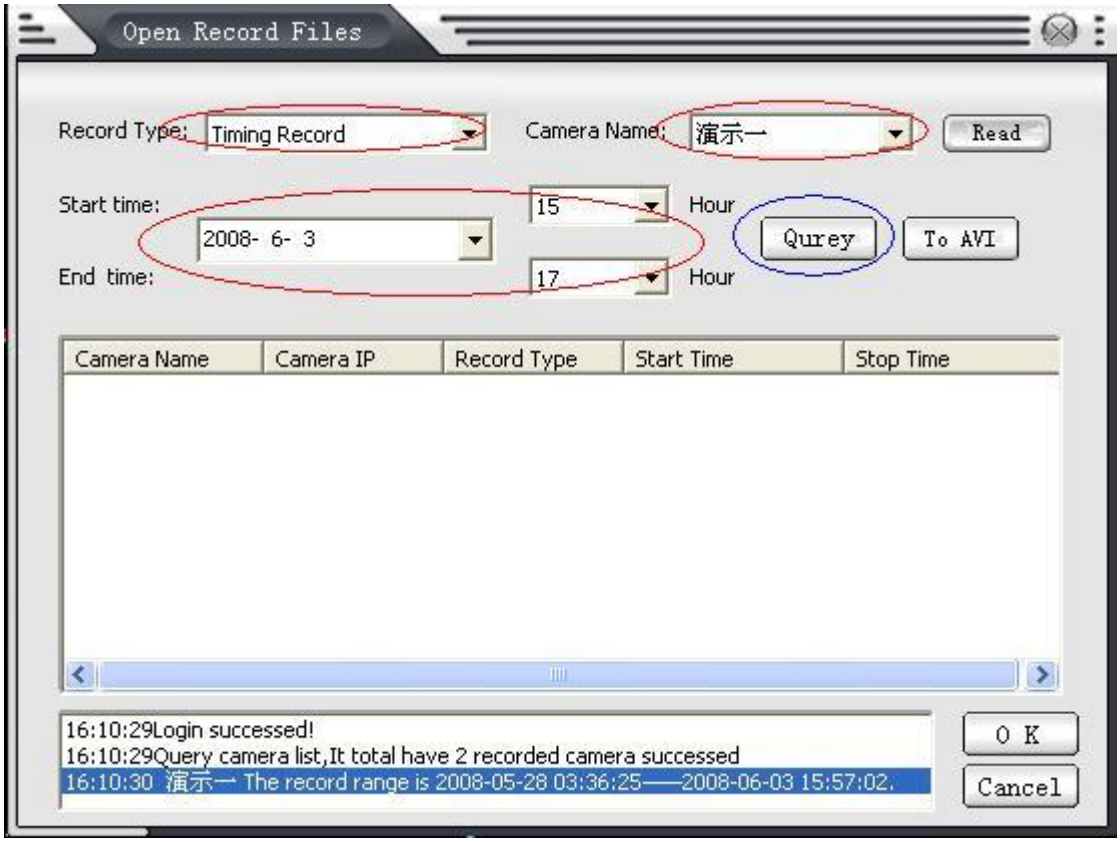


The central zone on the above picture is the zone where the video playbacks. The user can select one of the four windows to playback, or select more than one window to playback the videos from various cameras.

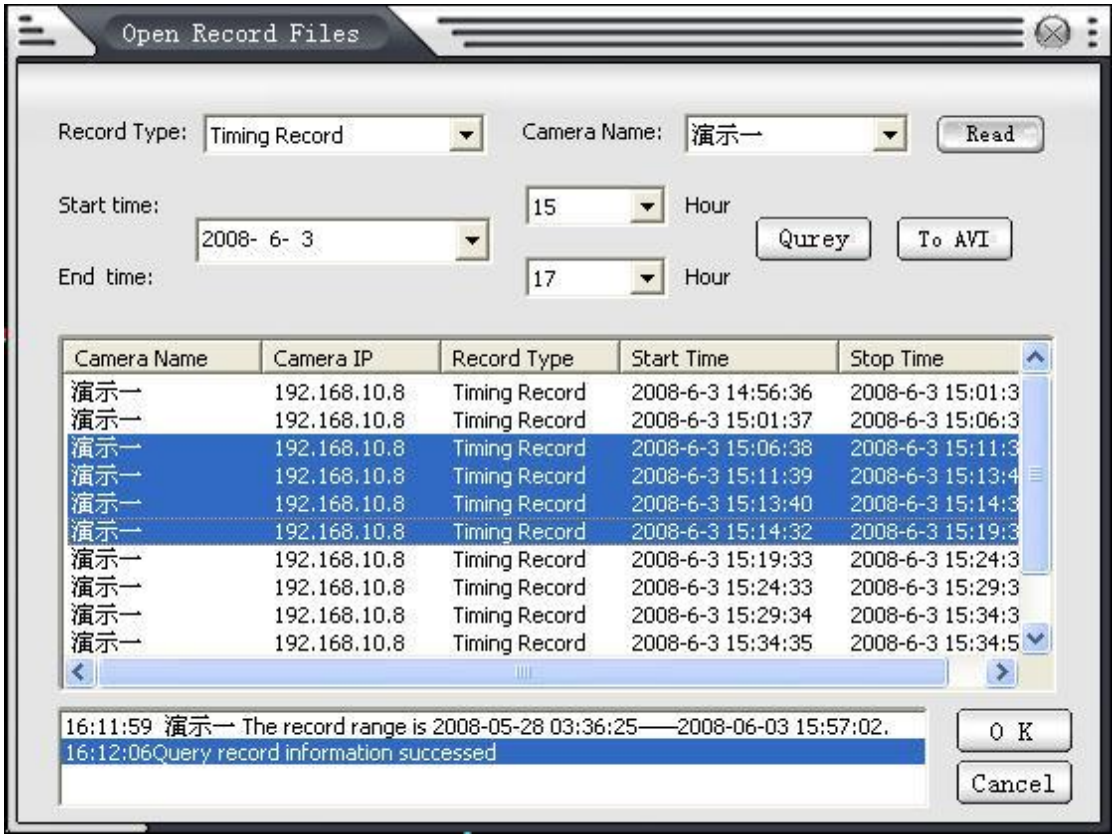
The zone in the red circle controls the process of playback. The instructions are seen when the mouse is moved on the button.

Click “Open the Video file” button or right click the playback window, select “Open the Video File”, then enter into the interface below:

Click “Read”，the storage information is present on the information bar as following picture shows:



According to the hint on the information bar, select the camera name whose video you like to playback, click “Query”，then all the videos on the designated time interval are present on the list of cameras as the following picture shows:



User can select one or more record at a time.

When choose the record, and click “To AVI”, The selected record will change the video format to AVI, and save to appointed place.

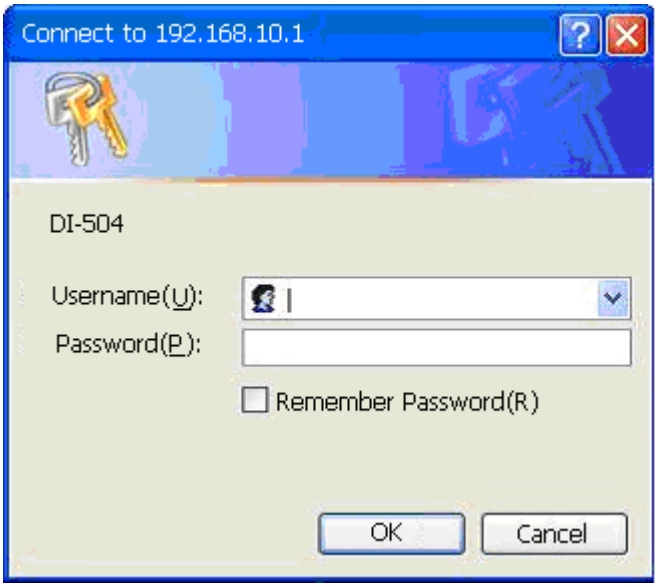
When choose the record, and click “OK”, Then it will directly play the selected record, like this:

"Play" supports the playback of four videos at one time.

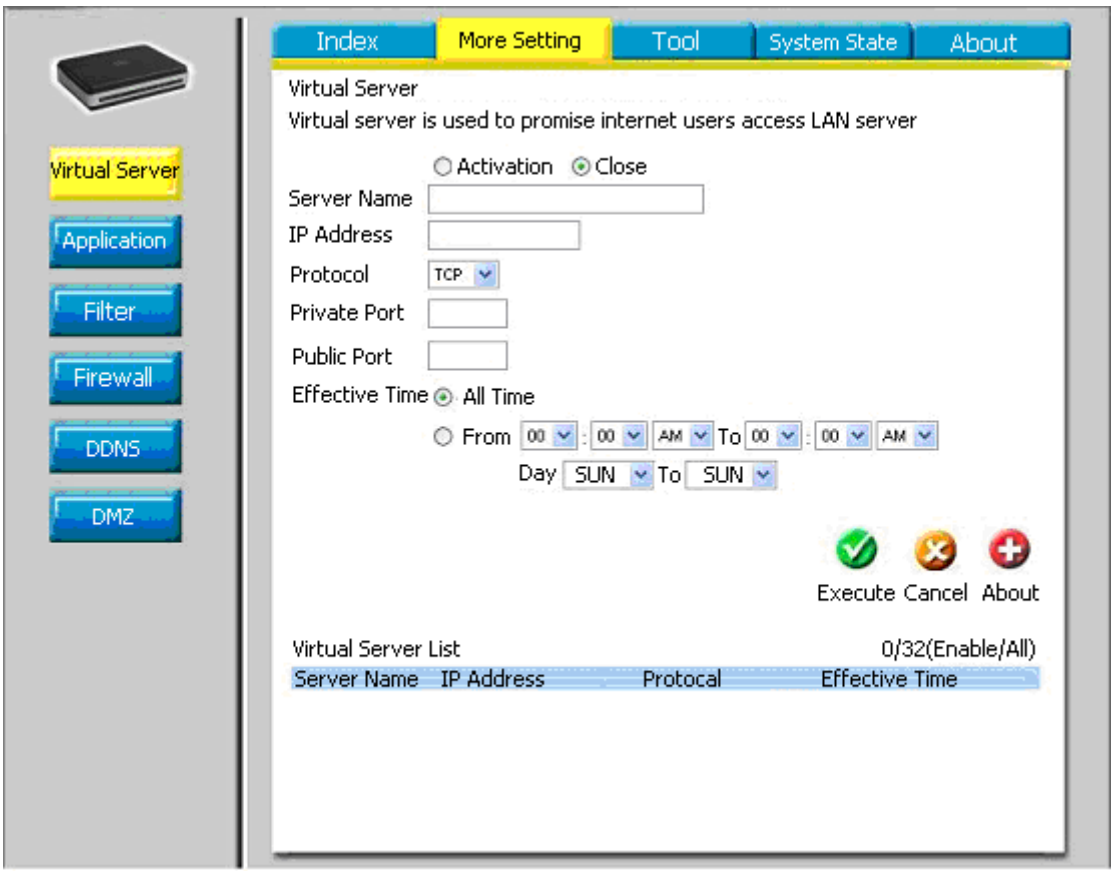
5.9. How to setting the router Port Mapping

Router Port Mapping ：

At first we login the router



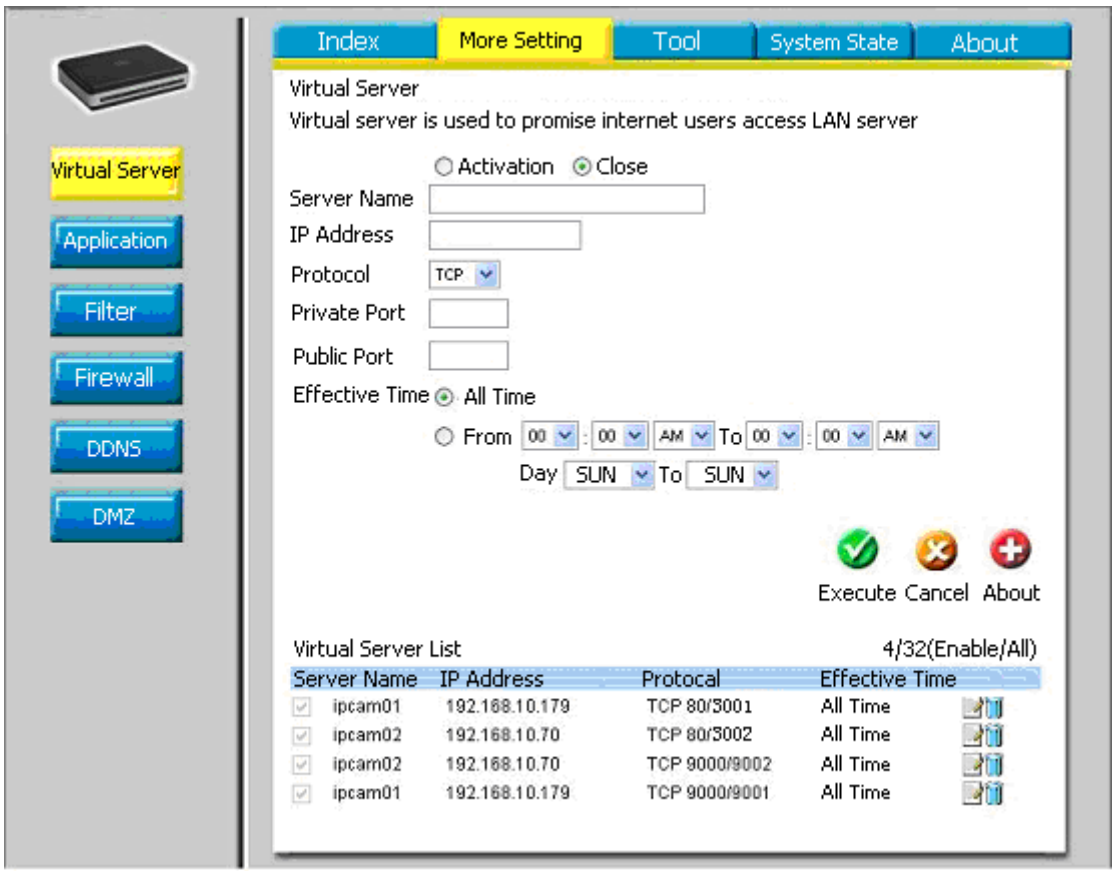
Input your Username and Password to access the router management page. Then click the virtual server page.



Private server port is local network port, Public server port is internet network port.

If you want to long-distance view camera video by IE, you just need to mapped the 80 port of the IP camera. If you want to long-distance view camera video by our software, you need to mapped the 80 port and the 9000 port of the IP camera.

If you want to configure two or more IP camera, Please consult the picture below to mapping the port.



The action in the picture on top will mapped 80 and 9000 port of the two IP camera to 3001, 3002 and 9001, 9002, Click execute to finish.

Notice：If you use VIPDDNS，The router mapping server must define by rule，The 80 port of the IP camera corresponding internet port range is from 3000 to 3022，9000 port corresponding internet port range is not limited.